

MISSOURI SPECIES AND COMMUNITIES* OF CONSERVATION CONCERN



Checklist



Short-eared owl

JANUARY 2019

CONTENTS

ACKNOWLEDGMENTS.....	2
INTRODUCTION.....	3
TERMS AND DEFINITIONS	4
SPECIES CHANGES	8
TERRESTRIAL NATURAL COMMUNITIES.....	10
THREATENED AND ENDANGERED SPECIES IN MISSOURI.....	13
SPECIES AND STATUSES	
LICHENS.....	15
LIVERWORTS AND HORNWORTS	15
MOSSES.....	16
FERNs AND FERN ALLIES.....	19
FLOWERING PLANTS	20
FLATWORMS	32
MOLLUSKS	33
ARACHNIDS	34
CRUSTACEANS.....	34
MILLIPEDES	35
INSECTS	36
FISH.....	39
AMPHIBIANS.....	40
REPTILES.....	40
BIRDS (See Appendix A for tracking criteria).....	41
MAMMALS	42
REFERENCES.....	44
FOR MORE INFORMATION (including Webpage and Citation).....	48
APPENDIX A: BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EOs.....	49
PLANTS OF CONSERVATION CONCERN REPORTING FORM.....	51
ANIMALS OF CONSERVATION CONCERN REPORTING FORM.....	52
TERRESTRIAL NATURAL COMMUNITY REPORTING FORM	53
AQUATIC NATURAL COMMUNITY REPORTING FORM	54

ACKNOWLEDGMENTS

The following individuals contributed to the development of this document: Bruce Allen (Missouri Botanical Garden-MOBOT), Mike Arduser (Missouri Department of Conservation-MDC-retired), John Atwood (MOBOT), Alan Brant, John Brinda (MOBOT), Jeff Briggler (MDC), Malissa Briggler (MDC), Christopher Brown (Monsanto), Steve Buback (MDC), Dorothy Butler (MDC), Rick Clawson (MDC-retired), Bob DiStefano (MDC), Bill Elliott (MDC-retired), Tony Elliott (MDC), Randy Evans (MDC), Debby Fantz (MDC), Susan Farrington (MDC), Dennis Figg (MDC-retired), Jane Fitzgerald (Partners In Flight), Matt Gompper (University of Missouri - Columbia), Lonnie Hansen (MDC-retired), Janet Haslerig (MDC), Nels Holmberg (MOBOT), Peggy Horner (Ozark Regional Land Trust), Bob Hrabik (MDC), Vicki Jackson (University of Central Oklahoma), Brad Jacobs (MDC-retired), Tom Johnson (MDC-retired), Harold Kerns (MDC-retired), Dave Knuth (MDC), Phil Koenig, Jeff Koppelman (MDC-retired), Doug Ladd (The Nature Conservancy), Mike Leahy (MDC), Bill Mabee (MDC), Ted MacRae (Monsanto), Paul McKenzie (U.S. Fish and Wildlife Service-USFWS), Stephen McMurray (MDC), Elizabeth Middleton (MDC), Tim Nigh (MDC-retired), Doug Novinger (MDC), Elizabeth Olson (MDC), William Pflieger (MDC-retired), Barry Poulton (U.S. Geological Survey), Lynn Robbins (Missouri State University-retired), Randy Sarver (Department of Natural Resources), John Scheibe (Southeast Missouri State University), Tim Smith (MDC-retired), Janet Sternburg (MDC), Bill Summers, Richard Thoma (Monsanto-retired), Justin Thomas (NatureCITE), James Trager (MOBOT, Shaw Nature Reserve), Jacob Westhoff (MDC), Kathryn Womack (MDC), George Yatskievych (UT Austin).

NOTICE: Please submit reports of all sightings of species and natural communities listed in this checklist on the forms provided in the back of this checklist. Special criteria apply to birds and reports should follow the guidelines listed in Appendix A.

INTRODUCTION

The Missouri Department of Conservation (MDC) is charged with the protection and management of Missouri's fish, forest, and wildlife resources. In the brief time since the settlement of Missouri, many plants and animals have declined to levels of concern and some have disappeared entirely. The species cataloged in this checklist represent 18 percent of the native vascular plants, 14 percent of the nonvascular plants, 28 percent of the vertebrate animals, and an unknown percentage of the native invertebrate species in Missouri. Together, the animals, plants, and natural communities represent Missouri's biological diversity—a natural heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri: the *Missouri Species and Communities of Conservation Concern Checklist (Checklist)* and the *Wildlife Code of Missouri (Code)*. The *Checklist* is used mainly for planning and communication purposes. All native animal species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest, harm or take is described in the *Code*. All native plant species in the State of Missouri are protected as biological diversity elements only on land owned by the Missouri Department of Conservation. Species listed in the *Code* under 3 CSR 10-4.111 and all federally listed endangered and threatened plants and animals protected by the Endangered Species Act of 1973 (ESA) are protected by the State Endangered Species Law 252.240. Some additional plants and animals in this *Checklist* also appear in the *Code* and are afforded special legal protection.

How to use the checklist

The checklist, developed with the cooperation of specialists throughout the state, is a list of plants, animals, and natural communities that MDC is particularly concerned about due to population declines or apparent vulnerability. The global and state ranks indicate the level of concern for each Element's (i.e., a species or type of natural community) continued existence throughout its range and in Missouri, respectively. Global ranks are assigned by the Natural Heritage/Conservation Data Center personnel and/or NatureServe. State Ranks in Missouri are assigned by the Missouri Natural Heritage Program within the Missouri Department of Conservation.

The Global and State Ranking System methodology was developed and provided by The Nature Conservancy, Conservation Science Division, in association with the Network of Natural Heritage Programs and Conservation Data Centers.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, and mammals). Within each group, species are arranged alphabetically by their scientific names and terrestrial natural communities by community type. Each Element is identified by its scientific name, common name, state rank, global rank, state status, and federal status.

TERMS AND DEFINITIONS

FEDERAL STATUS

The federal status is derived from the provisions of the Endangered Species Act of 1973, as amended, which is administered by the U.S. Fish and Wildlife Service (USFWS). Passage of the Endangered Species Act of 1973 gave the United States one of the most important laws ever enacted by any country to prevent the extinction of imperiled animals and plants. Protecting endangered and threatened species and restoring them to the condition where their existence is no longer jeopardized is the primary objective of the USFWS Endangered Species Program.

E: Endangered: Any species which is in danger of extinction throughout all or a significant portion of its range.

T: Threatened: Any species which is likely to become endangered within the foreseeable future.

C: Candidate: Plants or animals which USFWS is reviewing for possible addition to the list of endangered and threatened species.

PE: Proposed Endangered: Species officially proposed for listing as endangered; final ruling not yet made.

PT: Proposed Threatened: Species officially proposed for listing as threatened; final ruling not yet made.

SAT: Threatened due to similarity of appearance: Species is listed for its protection due to similarity of appearance with another listed species. Species listed as SAT are not biologically threatened.

STATE STATUS

Rule 3CSR10-4.111 of the *Wildlife Code of Missouri* and certain state statutes apply to state *Code-listed* species.

E: Endangered: Determined by MDC under constitutional authority.

GLOBAL RANK (GRANK)

Global ranks are assigned and maintained by the Natural Heritage/Conservation Data Center and/or NatureServe. A numeric rank (G1 through G5) of relative imperilment based on standard rank factors:

- the estimated number of Element Occurrences (EOs) throughout the Element's global, national, or subnational range;
- the estimated numbers of those EOs with good viability;
- the estimated abundance of the Element (measured in terms of population for species Elements as well as occupied area or linear distance for both species and communities);
- the estimated size of the Element's range;
- the short- and long-term trends in the Element's distribution over its range;
- the estimated number of adequately protected EOs throughout the Element's range globally, nationally, or subnationally;
- the scope, severity, and immediacy of threats to the Element;
- the vulnerability of the Element to intrusion; and
- the specificity of the Element's environmental requirements.

GLOBAL RANK (Cont.)

G1: Critically Imperiled: At very high risk of extinction or elimination due to extreme rarity, very steep declines, or other factors.

G2: Imperiled: At high risk of extinction or elimination due to very restricted range, very few populations or occurrences, steep declines, or other factors.

G3: Vulnerable: At moderate risk of extinction or elimination due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors.

G4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5: Secure: Common; widespread and abundant.

G#G#: Range Rank: A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

GU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Note: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

GNR: Unranked: Global rank not yet assessed.

GH: Possibly Extinct: Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct.

GX: Presumed Extinct: Not located despite intensive searches and virtually no likelihood of rediscovery.

SUBRANK:

T#: Infraspecific Taxon (binomial): Rank applies to a subspecies or variety. Rules for assigning T-ranks follow the same principles outlined above.

QUALIFIERS:

?: Inexact Numeric Rank: Denotes inexact numeric rank; it is not used in combination with range ranks, GH, or GX.

Q: Questionable Taxonomy: Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

STATE RANK

Assigning national and subnational conservation status ranks for species and ecosystems (ecological communities and systems) follows the same general principles as used in assigning global status ranks. Subnational ranks are assigned and maintained by the Missouri Natural Heritage Program (MONHP).

S1: Critically Imperiled: Critically imperiled in the state because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.

S2: Imperiled: Imperiled in the state because of rarity due to very restricted range, very few populations or occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state.

S3: Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors making it vulnerable to extirpation.

S4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5: Secure: Common, widespread, and abundant in the state.

S#S#: Range Rank: A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

SU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S?: Unranked: State rank not yet assessed.

SE: Exotic: An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).

SA: Accidental: Accidental or casual in the state, in other words, infrequent and outside its usual range. Includes species (usually birds or butterflies) recorded once or only a few times at a location. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the East Coast and vice-versa.

SP: Potential: Potential that the species occurs in the state, but no extant or historic occurrences are accepted.

SR: Reported: Species reported in the state but without a basis for either accepting or rejecting the report, or the report not yet reviewed locally. Some of these are very recent discoveries for which the Program has not yet received first-hand information; others are old, obscure reports.

SRF: Reported Falsey: Species erroneously reported in the state and the error has persisted in the literature.

STATE RANK (Cont.)

SH: Possibly Extirpated: Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough information to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the state.

SX: Presumed Extirpated: Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

QUALIFIERS:

?: Inexact or Uncertain: Denotes inexact or uncertain rank; this should not be used with range ranks, SH, or SX.

SPECIES CHANGES

STATUS CHANGES

PLANTS

Potentilla supina ssp. *paradoxa* is changed from S1 to S2 after 2017 and 2018 surveys documented new populations in Cole, Boone, Moniteau, and Washington Counties.

INSECTS

Bombus affinis (Rusty Patch Bumblebee) Federal status changed to Endangered due to Federal action.

Trimerotropis maritima (Seaside Grasshopper) from SH to S1 due to several recent collections in alluvial sand deposits in Northwest Missouri.

ADDITIONS

CRUSTACEANS

The Spring River Crayfish (*Faxonius roberti*) was known in Missouri from only the West Fork of the South Fork of the Spring River in Howell County where it comprised 25% of the crayfish community prior to 1984. However, the species has been declining in Missouri since that time due to introduction and spread of an invasive crayfish, and possibly due to drought and stream drying. Three recent surveys have failed to detect the species in Missouri and for many stream miles into Arkansas, and it appears that it may have been extirpated from Missouri. The U.S. Fish and Wildlife Service has considered the species for possible federal listing as Threatened or Endangered.

INSECTS

Dianthidium texanum (A Leafcutter Bee) as S1. Currently known only from a handful of glades in Eastern Missouri. Mostly on igneous glades, with one record from a sandstone glade.

Macropis steironematis (An Oil-collecting Bee) as S1 due to recent collection. Collected in tallgrass prairie in regularly sampled community.

Melanoplus francoisensis (A Spur-throat Grasshopper) as S1. Recently described species. Appears to be endemic to igneous substrates in MO.

Papaipema eryngii (Rattlesnake-master Borer Moth) as S3. Federal candidate for listing. Previously not known from Missouri, but now found at 17 sites, mostly in Unglaciated prairies.

MAMMALS

Lasiurus cinereus (Hoary Bat) as S3 due to fatalities related mainly to wind energy facilities. This species occurs throughout Missouri from spring – fall with undocumented winter use in Missouri.

DELETIONS

PLANTS

The status for *Galium asprellum* has changed from SH to SRF as the perceived presence in MO was likely due to an error in an herbarium label that should have indicated the collection site in WI. Therefore, the species has not been documented in MO and is removed from the SOCC list.

Opuntia polyacantha var. *polyacantha* is no longer tracked as it is considered a non-native species in MO and the only MO occurrence had become naturalized from a previous planting.

Symphyotrichum subulatum var. *ligulatum* is no longer tracked as it is considered a non-native species and recent surveys indicate an expanding distribution along roadsides and floodplains in MO.

TAXONOMIC CHANGES

LIVERWORTS AND HORNWORTS

The taxon name for *Aneura maxima* is changed to *A. sharpii* as *A. maxima* is now considered a species restricted to Europe and Asia.

PLANTS

The taxon name for *Leitneria floridana* is changed to *Leitneria pilosa* ssp. *ozarkana* as described by Schrader and Graves in 2011 (*Taxonomy of Leitneria Resolved by ISSR, ITS, and Morphometric Characterization*, *Castanea* 73[3]: 313-338).

The taxon name for *Rynchospora globularis* is changed to *Rynchospora globularis* var. *globularis*. Current collections from Missouri are identified as *Rynchospora globularis* var. *globularis*.

CRUSTACEANS

Recent taxonomic work on several primary burrowing crayfish species has resulted in changes to taxonomy and nomenclature for two species:

The genus name for Painted Devil Crayfish (*Cambarus*) changes to *Lacunicambarus*, so the full Latin name will be *Lacunicambarus ludovicianus*.

Similarly, the genus name for Paintedhand Mudbug (*Cambarus*) changes to *Lacunicambarus*, so the full Latin name will be *Lacunicambarus polychromatus*.

A recent global evaluation of crayfish taxonomy and nomenclature (Crandall and De Graves 2017) has resulted in all Missouri crayfishes in the genus *Orconectes* being reclassified to the genus *Faxonius*.

FISH

Recent taxonomic work indicates all populations of the Southern Cavefish (*Typhlichthys subterraneus*) in Missouri are a new species called the Salem Plateau Cavefish (*Typhlichthys eigenmanni*). Populations of Southern Cavefish now occur only outside of Missouri.

The scientific name for Ozark Cavefish changed to *Troglichthys rosae* from *Amblyopsis rosae*.

TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the MONHP tracks occurrences of high quality natural communities. Terrestrial natural communities are interrelated assemblages of plants, animals, and other living organisms incorporated into their physical surroundings- including geologic substrate, soils, topography and aspect - that are shaped by climate and other natural processes. High quality sites are ones that provide diverse assemblages of native species and represent the least distressed examples of ecosystems that existed in Missouri prior to European settlement. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Examples of high-quality aquatic natural communities are included in the MONHP, although SRANKs have not been assigned to individual aquatic natural community types. Because MDC tracks occurrences of high quality natural communities, we encourage the submission of site information on natural communities as we do for species listed in this Checklist.

State ranks are assigned to natural communities using criteria that are similar to species SRANKs. Criteria include total number of occurrences, number of occurrences by grade [A-D], total acres, number of counties in which the community type occurs, number of protected occurrences, and threats. Global ranks are not applied to communities due to the difficulty in reconciling Missouri's classification system with larger scale classifications.

Natural community types have been classified using *The Terrestrial Natural Communities of Missouri* (Nelson, 2005). This classification system was developed to accomplish an inventory of the state's natural communities, prioritized by quality, size and distribution, to help meet land protection goals. The terrestrial natural communities tracked in MONHP (high-quality examples) are listed below with their SRANKs by major community type.

COMMUNITY TYPE

FOREST

SRANK

Dry-Mesic Loess/Glacial Till Forest	S3
Mesic Loess/Glacial Till Forest	S3
Dry-Mesic Limestone/Dolomite Forest	S3
Mesic Limestone/Dolomite Forest	S3
Dry-Mesic Chert Forest	S4
Dry-Mesic Sandstone Forest	S3
Mesic Sandstone Forest	S2
Dry-Mesic Sand Forest	S1
Mesic Sand Forest	S1
Dry-Mesic Igneous Forest	S4
Dry-Mesic Bottomland Forest	S3
Mesic Bottomland Forest	S2
Wet-Mesic Bottomland Forest	S2
Wet Bottomland Forest	S3
Riverfront Forest	S4
Total Forest Types:	15

WOODLAND	<u>SRANK</u>
Dry Loess/Glacial Till Woodland	S3
Dry-Mesic Loess/Glacial Till Woodland	S3
Dry Limestone/Dolomite Woodland	S3
Dry-Mesic Limestone/Dolomite Woodland	S3
Dry Chert Woodland	S4
Dry-Mesic Chert Woodland	S4
Dry Sandstone Woodland	S3
Dry-Mesic Sandstone Woodland	S3
Dry Sand Woodland	S1
Dry-Mesic Sand Woodland	S2
Dry Igneous Woodland	S4
Dry-Mesic Igneous Woodland	S4
Upland Flatwoods	S2
Bottomland Flatwoods	S1
Sinkhole Flatwoods	S2
Dry-Mesic Bottomland Woodland	S2
Mesic Bottomland Woodland	SH
Wet-Mesic Bottomland Woodland	S1
Total Woodland Types:	18

SAVANNA	<u>SRANK</u>
Dry-Mesic Loess/Glacial Till Savanna	S1
Mesic Loess/Glacial Till Savanna	SH
Limestone/Dolomite Savanna	SH
Chert Savanna	SH
Sandstone/Shale Savanna	SH
Sand Savanna	S1
Total Savanna Types:	6

PRAIRIE	<u>SRANK</u>
Dry Loess/Glacial Till Prairie	S2
Dry-Mesic Loess/Glacial Till Prairie	S1
Mesic Loess/Glacial Till Prairie	S1
Dry Limestone/Dolomite Prairie	S2
Dry-Mesic Limestone/Dolomite Prairie	S2
Dry-Mesic Chert Prairie	S3
Dry-Mesic Sandstone/Shale Prairie	S3
Sand Prairie	S1
Prairie Swale	S2
Hardpan Prairie	S2
Wet-Mesic Bottomland Prairie	S1
Wet Bottomland Prairie	S1
Total Prairie Types:	12

GLADE	<u>SRANK</u>
Limestone Glade	S2
Dolomite Glade	S3
Chert Glade	S2
Sandstone Glade	S2
Igneous Glade	S3
Total Glade Types:	5

CLIFF/TALUS	<u>SRANK</u>
Dry Limestone/Dolomite Cliff	S5
Moist Limestone/Dolomite Cliff	S4
Dry Sandstone Cliff	S4
Moist Sandstone Cliff	S3
Dry Chert Cliff	S3
Moist Chert Cliff	S2
Dry Igneous Cliff	S4
Moist Igneous Cliff	S4
Unconsolidated Bluff	S3
Limestone/Dolomite Talus	S4
Igneous Talus	S4
Total Cliff/Talus Types:	11

STREAM EDGE	<u>SRANK</u>
Sand Bar	S3
Gravel Wash	S3
Stream Bank/River Bank	S2
Total Stream Edge Types:	3

WETLAND	<u>SRANK</u>
Marsh	S2
Shrub Swamp	S2
Swamp	S1
Pond Marsh	S1
Pond Shrub Swamp	S2
Pond Swamp	S1
Ozark Fen	S2
Prairie Fen	S2
Forested Fen	S2
Glacial Fen	S1
Acid Seep	S2
Saline Seep	S1
Limestone/Dolomite Spring	S3
Total Wetland Types:	13

CAVE	<u>SRANK</u>
Aquatic Cave	S4
Terrestrial Cave	S4
Total Cave Types:	2
Total Terrestrial Natural Communities:	85

THREATENED AND ENDANGERED SPECIES IN MISSOURI

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATE¹ STATUS</u>	<u>FEDERAL² STATUS</u>
PLANTS			
<i>Asclepias meadii</i>	Mead's Milkweed	Endangered	Threatened
<i>Boltonia decurrens</i>	Decurrent False Aster	Endangered	Threatened
<i>Geocarpon minimum</i>	Geocarpon	Endangered	Threatened
<i>Helenium virginicum</i>	Virginia Sneezeweed	Endangered	Threatened
<i>Isotria medeoloides</i>	Small Whorled Pogonia ³	Endangered	Threatened
<i>Lindera melissifolia</i>	Pondberry	Endangered	Endangered
<i>Physaria filiformis</i>	Missouri Bladderpod	Endangered	Threatened
<i>Platanthera leucophaea</i>	Eastern Prairie Fringed Orchid ³	Endangered	Threatened
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	Endangered	Threatened
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	Endangered	Endangered
MOLLUSKS			
<i>Alasmidonta viridis</i>	Slippershell Mussel	Endangered	
<i>Antrobia culveri</i>	Tumbling Creek Cavesnail	Endangered	Endangered
<i>Elliptio crassidens</i>	Elephantear	Endangered	
<i>Epioblasma curtisii</i>	Curtis Pearlymussel	Endangered	Endangered
<i>Epioblasma triquetra</i>	Snuffbox	Endangered	Endangered
<i>Lampsilis abrupta</i>	Pink Mucket	Endangered	Endangered
<i>Lampsilis higginsii</i>	Higgins Eye	Endangered	Endangered
<i>Lampsilis rafinesqueana</i>	Neosho Mucket	Endangered	Endangered
<i>Leptodea leptodon</i>	Scaleshell	Endangered	Endangered
<i>Margaritifera monodonta</i>	Spectaclecase	Endangered	Endangered
<i>Plethobasus cyphyus</i>	Sheepnose	Endangered	Endangered
<i>Potamilus capax</i>	Fat Pocketbook	Endangered	Endangered
<i>Quadrula fragosa</i>	Winged Mapleleaf	Endangered	Endangered
<i>Reginaia ebenus</i>	Ebonyshell	Endangered	
<i>Simpsonaias ambigua</i>	Salamander Mussel	Endangered	
<i>Theliderma cylindrica</i>	Rabbitsfoot	Endangered	Threatened
CRUSTACEANS			
<i>Cambarus aculabrum</i>	Benton County Cave Crayfish		Endangered
INSECTS			
<i>Bombus affinis</i>	Rusty Patch Bumblebee		Endangered
<i>Nicrophorus americanus</i>	American Burying Beetle ³	Endangered	Endangered
<i>Papaipema eryngii</i>	Rattlesnake-master Borer Moth		Candidate
<i>Somatochlora hineana</i>	Hine's Emerald	Endangered	Endangered
FISH			
<i>Acipenser fulvescens</i>	Lake Sturgeon	Endangered	
<i>Amblyopsis rosae</i>	Ozark Cavefish	Endangered	Threatened
<i>Cottus specus</i>	Grotto Sculpin		Endangered
<i>Crystallaria asprella</i>	Crystal Darter	Endangered	
<i>Etheostoma fusiforme</i>	Swamp Darter	Endangered	
<i>Etheostoma histrio</i>	Harlequin Darter	Endangered	
<i>Etheostoma nianguae</i>	Niangua Darter	Endangered	Threatened
<i>Etheostoma parvipinne</i>	Goldstripe Darter	Endangered	
<i>Etheostoma whipplei</i>	Redfin Darter	Endangered	
<i>Forbesichthys agassizii</i>	Spring Cavefish	Endangered	
<i>Hybognathus hayi</i>	Cypress Minnow	Endangered	
<i>Notropis maculatus</i>	Taillight Shiner	Endangered	
<i>Notropis sabinae</i>	Sabine Shiner	Endangered	
<i>Notropis topeka</i>	Topeka Shiner	Endangered	Endangered
<i>Noturus eleutherus</i>	Mountain Madtom	Endangered	
<i>Noturus placidus</i>	Neosho Madtom	Endangered	Threatened

THREATENED AND ENDANGERED SPECIES IN MISSOURI (Cont.)

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATE¹ STATUS</u>	<u>FEDERAL² STATUS</u>
FISH (Cont.)			
<i>Percina nasuta</i>	Longnose Darter	Endangered	
<i>Platygobio gracilis</i>	Flathead Chub	Endangered	
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	Endangered	Endangered
<i>Scaphirhynchus platorynchus</i>	Shovelnose Sturgeon		Threatened/SA
<i>Umbratilis</i>	Central Mudminnow	Endangered	
AMPHIBIANS			
<i>Cryptobranchus a. alleganiensis</i>	Eastern Hellbender	Endangered	
<i>Cryptobranchus a. bishopi</i>	Ozark Hellbender	Endangered	Endangered
REPTILES			
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	Endangered	
<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered	
<i>Kinosternon flavescens</i>	Yellow Mud Turtle	Endangered	
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake ³	Endangered	
<i>Sistrurus catenatus</i>	Eastern Massasauga ³	Endangered	
<i>Sistrurus tergeminus tergeminus</i>	Prairie Massasauga	Endangered	Threatened
BIRDS			
<i>Botaurus lentiginosus</i>	American Bittern	Endangered	
<i>Circus hudsonius</i>	Northern Harrier	Endangered	
<i>Egretta thula</i>	Snowy Egret	Endangered	
<i>Falco peregrinus</i>	Peregrine Falcon	Endangered	
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	Endangered	
<i>Peacaea aestivalis</i>	Bachman's Sparrow	Endangered	
<i>Rallus elegans</i>	King Rail	Endangered	
<i>Sterna antillarum athalassos</i>	Interior Least Tern	Endangered	
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	Endangered	Endangered
MAMMALS			
<i>Canis lupus</i>	Gray Wolf ³		Endangered
<i>Canis rufus</i>	Red Wolf ³		Endangered
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat ³	Endangered	Endangered
<i>Lepus californicus</i>	Black-tailed Jackrabbit	Endangered	
<i>Myotis grisescens</i>	Gray Myotis	Endangered	Endangered
<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	Endangered	Threatened
<i>Myotis sodalis</i>	Indiana Myotis	Endangered	Endangered
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	Endangered	

¹ Listed in the Wildlife Code of Missouri, Rule 3 CSR10-4.111 Endangered Species.

²Federally Listed Species under the Endangered Species Act (ESA) of 1973 as Amended:

Endangered = Any species that is in danger of extinction throughout all or a significant portion of its range.

Threatened = Any species that is likely to become endangered within the foreseeable future.

Candidate = Plants or animals that the U.S. Fish & Wildlife Service is reviewing for possible addition to the list of Endangered and Threatened species.

Proposed = Any species proposed for listing as Threatened or Endangered by the U.S. Fish & Wildlife Service.

Threatened/SA = Any species listed Threatened due to Similarity of Appearance by the U.S. Fish & Wildlife Service.

³Considered extirpated, historical or accidental occurrence in Missouri.

THREATENED AND ENDANGERED SPECIES IN MISSOURI (Cont.)

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATE¹ STATUS</u>	<u>FEDERAL² STATUS</u>
FISH (Cont.)			
<i>Percina nasuta</i>	Longnose Darter	Endangered	
<i>Platygobio gracilis</i>	Flathead Chub	Endangered	
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	Endangered	Endangered
<i>Scaphirhynchus platorynchus</i>	Shovelnose Sturgeon		Threatened/SA
<i>Umbratilis</i>	Central Mudminnow	Endangered	
AMPHIBIANS			
<i>Cryptobranchus a. alleganiensis</i>	Eastern Hellbender	Endangered	
<i>Cryptobranchus a. bishopi</i>	Ozark Hellbender	Endangered	Endangered
REPTILES			
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	Endangered	
<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered	
<i>Kinosternon flavescens</i>	Yellow Mud Turtle	Endangered	
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake ³	Endangered	
<i>Sistrurus catenatus</i>	Eastern Massasauga ³	Endangered	
<i>Sistrurus tergeminus tergeminus</i>	Prairie Massasauga	Endangered	Threatened
BIRDS			
<i>Botaurus lentiginosus</i>	American Bittern	Endangered	
<i>Circus hudsonius</i>	Northern Harrier	Endangered	
<i>Egretta thula</i>	Snowy Egret	Endangered	
<i>Falco peregrinus</i>	Peregrine Falcon	Endangered	
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	Endangered	
<i>Peacaea aestivalis</i>	Bachman's Sparrow	Endangered	
<i>Rallus elegans</i>	King Rail	Endangered	
<i>Sterna antillarum athalassos</i>	Interior Least Tern	Endangered	
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	Endangered	Endangered
MAMMALS			
<i>Canis lupus</i>	Gray Wolf ³		Endangered
<i>Canis rufus</i>	Red Wolf ³		Endangered
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat ³	Endangered	Endangered
<i>Lepus californicus</i>	Black-tailed Jackrabbit	Endangered	
<i>Myotis grisescens</i>	Gray Myotis	Endangered	Endangered
<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	Endangered	Threatened
<i>Myotis sodalis</i>	Indiana Myotis	Endangered	Endangered
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	Endangered	

¹ Listed in the Wildlife Code of Missouri, Rule 3 CSR10-4.111 Endangered Species.

²Federally Listed Species under the Endangered Species Act (ESA) of 1973 as Amended:

Endangered = Any species that is in danger of extinction throughout all or a significant portion of its range.

Threatened = Any species that is likely to become endangered within the foreseeable future.

Candidate = Plants or animals that the U.S. Fish & Wildlife Service is reviewing for possible addition to the list of Endangered and Threatened species.

Proposed = Any species proposed for listing as Threatened or Endangered by the U.S. Fish & Wildlife Service.

Threatened/SA = Any species listed Threatened due to Similarity of Appearance by the U.S. Fish & Wildlife Service.

³Considered extirpated, historical or accidental occurrence in Missouri.

SPECIES AND STATUSES

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
LICHENS					
<i>Cladonia cervicornis</i> ssp. <i>verticillata</i>	A Lichen	S?	G5T5		
<i>Cladonia leporina</i>	A Lichen	S2	G4G5		
<i>Coenogonium missouriense</i>	Missouri Cave Lichen	SH	GH		
<i>Collema nigrescens</i>	A Lichen	SU	G5?		
<i>Dendriscocaulon intricatum</i>	A Lichen	S?	GUQ		
<i>Dermatocarpon moulinii</i>	A Lichen	S1	GNR		
<i>Dibaeis absoluta</i>	A Lichen	S1	G4		
<i>Flavoparmelia rutidota</i>	A Lichen	S?	G4G5		
<i>Graphina sophisticascens</i>	A Lichen	SH	GNR		
<i>Imshaugia aleurites</i>	A Lichen	S?	G5		
<i>Lecidea lurida</i>	A Lichen	SU	GNR		
<i>Pannaria rubiginosa</i>	A Lichen	S1	G4G5		
<i>Parmelia squarrosa</i>	A Lichen	S?	G5		
<i>Parmelina horrescens</i>	A Lichen	S1	G5		
<i>Parmotrema hypoleucinum</i>	A Lichen	S1	G4G5		
<i>Parmotrema madagascariaceum</i>	A Lichen	S?	G3G5		
<i>Parmotrema tinctorum</i>	A Lichen	S2	G5?		
<i>Pseudocyphellaria aurata</i>	A Lichen	S1	G3G5		
<i>Psora icterica</i>	A Lichen	S1	G5?		
<i>Pycnothelia papillaria</i>	A Lichen	S1	G3G5		
<i>Ramalina intermedia</i>	A Lichen	S1	G5		
<i>Rimelia subisidiosa</i>	A Lichen	S1	G4G5		
<i>Tuckermannopsis ciliaris</i>	A Lichen	S?	G3G5		
<i>Usnea angulata</i>	A Lichen	S1	G3G5		
<i>Xanthoparmelia australasica</i>	A Lichen	S1	G5		
Total Lichen Records: 25					

LIVERWORTS AND HORNWORTS

<i>Aneura sharpii</i>	A Liverwort	S1	GNR
<i>Anthoceros agrestis</i>	A Hornwort	S2	G4G5
<i>Bazzania trilobata</i> var. <i>depauperata</i>	A Liverwort	S1	G5TUQ
<i>Bazzania trilobata</i> var. <i>trilobata</i>	A Liverwort	S1	G5TUQ
<i>Calypogeia muelleriana</i> ssp. <i>muelleriana</i>	A Liverwort	SU	G5T5
<i>Calypogeia sullivantii</i>	A Leafy Liverwort	S1	G4
<i>Frullania kunzei</i>	A Liverwort	S1	G4
<i>Fuscocephaloziopsis catenulata</i>	A Liverwort	S2	G5
<i>Fuscocephaloziopsis connivens</i>	A Liverwort	S1	G5
<i>Jungermannia leiantha</i>	A Liverwort	S1	G5
<i>Kurzia setacea</i>	A Liverwort	S1	G5
<i>Kurzia sylvatica</i>	A Liverwort	S1	G5
<i>Leucolejeunea unciloba</i>	A Liverwort	S1	G4G5
<i>Marchantia polymorpha</i> ssp. <i>polymorpha</i>	A Liverwort	S1	GNR

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
LIVERWORTS AND HORNWORTS (Cont.)					
<i>Marsupella sullivantii</i>	A Liverwort	S2	G5		
<i>Metzgeria conjugata</i>	A Liverwort	S1	G5		
<i>Metzgeria furcata</i>	A Liverwort	S2	G5		
<i>Nardia lescurii</i>	A Liverwort	S1	G3?		
<i>Notothylas orbicularis</i>	A Hornwort	S1	G5		
<i>Nowellia curvifolia</i>	A Liverwort	S2	G5		
<i>Odontoschisma denudatum</i>	A Liverwort	S1	G5		
<i>Oxymitra incrassata</i>	A Liverwort	S1	GNR		
<i>Phaeoceros oreganus</i>	A Hornwort	S1	GNRQ		
<i>Plagiochasma wrightii</i>	A Liverwort	SH	G3?		
<i>Ptilidium pulcherrimum</i>	A Liverwort	S1	G5		
<i>Radula australis</i>	A Liverwort	SR	G3G4		
<i>Rectolejeunea maxonii</i>	A Liverwort	S1	G4		
<i>Riccardia multifida</i>	A Liverwort	S1	G5		
<i>Riccardia palmata</i>	A Liverwort	S1	G5		
<i>Riccia austini</i>	A Liverwort	S2	G5		
<i>Riccia bifurca</i>	A Liverwort	SU	G5		
<i>Riccia cavernosa</i>	A Liverwort	S1	G5		
<i>Riccia crystallina</i>	A Liverwort	SU	G4G5		
<i>Riccia frostii</i>	A Liverwort	S1	G5		
<i>Riccia hirta</i>	A Liverwort	S2	G5		
<i>Riccia macallisteri</i>	A Liverwort	S1	G2G4		
<i>Riccia nigrella</i>	A Liverwort	SU	G4G5		
<i>Riccia ozarkiana</i>	A Liverwort	SH	G1G2		
<i>Riccia sorocarpa</i>	A Liverwort	S1	G5		
<i>Riccia sullivantii</i>	A Liverwort	S?	G4Q		
<i>Schistochilopsis incisa</i>	A Liverwort	S1	G5		
Total Liverwort and Hornwort Records: 41					

MOSSES

<i>Acaulon muticum</i> var. <i>muticum</i>	A Moss	S1	G4G5TNR
<i>Anacamptodon splachnoides</i>	Knothole Moss	S1	G3G5
<i>Anomobryum julaceum</i>	A Moss	S1	G4G5
<i>Archidium alternifolium</i>	A Moss	S1	G4G5
<i>Atrichum crispulum</i>	A Moss	S2	GNR
<i>Atrichum crispum</i>	A Moss	S1	G5
<i>Atrichum cylindricum</i>	A Moss	S1	G5
<i>Brachelyma subulatum</i>	A Moss	S1	G4G5
<i>Brachythecium campestre</i>	A Moss	S1	G4G5Q
<i>Brachythecium salebrosum</i> var. <i>salebrosum</i>	A Moss	SU	G5TNR
<i>Bruchia texana</i>	A Moss	SU	G3G5
<i>Bryhnia novae-angliae</i>	A Moss	S1	G5
<i>Bryoxiphium norvegicum</i>	Sword Moss	S1	G5?
<i>Calliergonella cuspidata</i>	A Moss	S1	G5
<i>Campylium protensum</i>	A Moss	S2	G5T3T5
<i>Campyloodiella stenocarpa</i>	A Moss	S1	G5

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Campylopus tallulensis</i>	A Moss	S2	G4		
<i>Codiophorus aciculare</i>	A Moss	S1	G5		
<i>Dichelyma capillaceum</i>	A Moss	S1	G5		
<i>Dicranella rufescens</i>	A Moss	S1	G5?		
<i>Dicranum polysetum</i>	A Moss	S1	G5		
<i>Didymodon revolutus</i>	A Moss	S1	G4		
<i>Didymodon rigidulus</i> var. <i>rigidulus</i>	A Moss	S1	G5T4?		
<i>Ditrichum rhynchostegium</i>	A Moss	S1	G3G5		
<i>Drepanocladus aduncus</i>	A Moss	SU	G5		
<i>Drepanocladus polygamus</i>	A Moss	S1	G5		
<i>Encalypta procera</i>	Extinguisher Moss	S1	G5		
<i>Entodon brevisetus</i>	A Moss	S1	G4?		
<i>Ephemerum crassinervium</i> var. <i>texanum</i>	A Moss	SU	G4T3?		
<i>Ephemerum serratum</i>	A Moss	S1	G4		
<i>Fissidens exilis</i>	Small Pocket Moss	S2	G3G4		
<i>Fissidens hallianus</i>	A Moss	S2	GNRQ		
<i>Forsstroemia producta</i>	A Moss	S1	G5?		
<i>Funaria americana</i>	A Moss	SU	G3?		
<i>Gemmabryum klinggraeffii</i>	A Moss	S1	G4G5		
<i>Gemmabryum ruderale</i>	A Moss	S2	G3G5		
<i>Gemmabryum subapiculatum</i>	A Moss	SX	G5?		
<i>Grimmia olneyi</i>	A Moss	S2	G3G5		
<i>Grimmia plagiopodia</i>	A Moss	S1	G4G5		
<i>Gymnostomum calcareum</i>	A Moss	SU	G5?		
<i>Herzogiella striatella</i>	A Moss	SU	G4G5		
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus	S1	G3?		
<i>Hypnum cupressiforme</i> var. <i>filiforme</i>	A Moss	S1	G5TNR		
<i>Hypnum lindbergii</i>	Lindberg's Hypnum Moss	SU	G5		
<i>Hypnum pallescens</i>	A Moss	S1	G5		
<i>Hypnum pratense</i>	A Moss	S1	G5		
<i>Imbribryum miniatum</i>	A Moss	S1	G4G5		
<i>Isopterygiopsis muelleriana</i>	A Moss	S1	G5		
<i>Jaffueliobryum raui</i>	A Moss	S2	G4?		
<i>Jaffueliobryum wrightii</i>	A Moss	S1	G4G5		
<i>Leskea polycarpa</i>	A Moss	SU	G5		
<i>Micromitrium megalosporum</i>	A Moss	S1S2	G4		
<i>Micromitrium synoicum</i>	A Moss	SU	G4		
<i>Micromitrium tenerum</i>	A Moss	S1	G4G5		
<i>Mnium hornum</i>	A Moss	S1	G5		
<i>Mnium thomsonii</i>	A Moss	S?	G5		
<i>Myurella sibirica</i>	A Moss	S2	G5		
<i>Neckera besseri</i>	A Moss	S1	G4G5		
<i>Orthotrichum anomalum</i>	A Moss	S?	G5		
<i>Orthotrichum diaphanum</i>	A Moss	S2	G5		
<i>Orthotrichum elegans</i>	A Moss	S1	G5T5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Orthotrichum lescurii</i>	A Moss	S1	GNR		
<i>Physcomitrium collenchymatum</i>	A Moss	S1	G2G4		
<i>Physcomitrium hookeri</i>	A Moss	SU	G2G4		
<i>Plagiomnium medium</i>	A Moss	SU	G5		
<i>Plagiothecium denticulatum</i>	A Moss	S1	G5		
<i>Platylomella lescurii</i>	A Moss	S2	G5		
<i>Pleuridium acuminatum</i>	A Moss	S2	G3G5		
<i>Pleuridium sullivantii</i>	A Moss	S1	G3G5		
<i>Pohlia annotina</i>	A Moss	S2	G4G5		
<i>Polytrichastrum formosum</i> var. <i>densifolium</i>	A Moss	S1	G5TNR		
<i>Pseudocampylium radicale</i>	A Moss	S1	G3G5		
<i>Pseudotaxiphyllum</i> <i>distichaceum</i>	A Moss	S1	G4G5		
<i>Ptychomitrium serratum</i>	A Moss	S1	G4?		
<i>Ptychomitrium sinense</i>	A Moss	S1	G4G5		
<i>Ptychostomum cernuum</i>	A Moss	S1	G3G5		
<i>Ptychostomum cyclophyllum</i>	A Moss	S?	G4G5		
<i>Ptychostomum pallescens</i>	A Moss	SU	G5		
<i>Ptychostomum pendulum</i>	A Moss	S1	G5		
<i>Pylaisia intricata</i>	A Moss	SU	G4		
<i>Pylaisiadelpha tenuirostris</i>	A Moss	S2	G5?		
<i>Pyramidula tetragona</i>	A Moss	S1	G3G5		
<i>Rhabdoweisia crispata</i>	A Moss	S1	G5		
<i>Rhytidium rugosum</i>	Golden Glade-moss	S1	G5		
<i>Rosulabryum flaccidum</i>	A Moss	S2	GNR		
<i>Schistidium liliputanum</i>	A Moss	S1	GNR		
<i>Seligeria calcarea</i>	A Moss	S?	G4?		
<i>Seligeria donniana</i>	A Moss	S1	G4G5		
<i>Seligeria pusilla</i>	A Moss	S1	G3G5		
<i>Sematophyllum marylandicum</i>	A Moss	S1	G5		
<i>Sphagnum affine</i>	Sphagnum	S1	G5		
<i>Sphagnum angustifolium</i>	Narrowleaf Peatmoss	S1	G5		
<i>Sphagnum bartlettianum</i>	Sphagnum	S1	G4G5		
<i>Sphagnum capillifolium</i>	Northern Peatmoss	S2	G5		
<i>Sphagnum cuspidatum</i>	Sphagnum	S1	G5		
<i>Sphagnum fallax</i>	Sphagnum	S1	G5		
<i>Sphagnum fimbriatum</i> var. <i>fimbriatum</i>	Sphagnum	S1	G5T5		
<i>Sphagnum henryense</i>	Sphagnum	S1	G4?		
<i>Sphagnum inundatum</i>	Sphagnum	S1	G4		
<i>Sphagnum magellanicum</i>	Magellan's Peatmoss	S1	G5		
<i>Sphagnum platyphyllum</i>	Sphagnum	SU	G5		
<i>Sphagnum recurvum</i>	Sphagnum	S1	G5		
<i>Sphagnum russowii</i>	Sphagnum	S1	G5		
<i>Sphagnum subtile</i>	Sphagnum	S2	G5		
<i>Sphagnum trinitense</i>	Sphagnum	S1	G4		
<i>Syntrichia papillosa</i>	A Moss	S2	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOSSES (Cont.)					
<i>Syrrhopodon texanus</i>	A Moss	S2	G5		
<i>Thamnobryum alleghaniense</i>	A Moss	S1	G5?		
<i>Tortella fragilis</i>	Fragmented Screw-moss	SU	G5		
<i>Tortella tortuosa</i>	Twisted Moss	SU	G5		
<i>Trematodon longicollis</i>	A Moss	S2	G5		
<i>Trichostomum tenuirostre</i> var. <i>gemmae</i>	A Moss	S1	G5TU		
<i>Ulota hutchinsiae</i>	Hutchins' Ulota Moss	S1	G5		
<i>Weissia phascopsis</i>	A Pygmy Moss	S1	G3G4		
<i>Zygodon apiculatus</i>	A Moss	S1	GU		
Total Moss Records: 115					
FERNS AND FERN ALLIES					
<i>Asplenium bradleyi</i>	Bradley's Spleenwort	SU	G4		
<i>Asplenium montanum</i>	Mountain Spleenwort	SH	G5		
<i>Asplenium pinnatifidum</i>	Lobed Spleenwort	SU	G4		
<i>Asplenium trichomanes</i> ssp. <i>trichomanes</i>	Maidenhair Spleenwort	SU	G5T5		
<i>Azolla caroliniana</i>	Eastern Mosquito Fern	S1S3	G5		
<i>Botrychium biternatum</i>	Few-lobed Grape Fern	S1	G5		
<i>Cheilanthes alabamensis</i>	Alabama Lip-fern	S1	G4G5		
<i>Cheilanthes tomentosa</i>	Woolly Lip-fern	S1	G5		
<i>Cystopteris tenuis</i>	A Bladderfern	S1	G5		
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern	S2	G5		
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern	S2	G5		
<i>Dryopteris celsa</i>	Log Fern	S1	G4		
<i>Dryopteris cristata</i>	Crested Fern	S1	G5		
<i>Dryopteris goldiana</i>	Goldie's Fern	S2	G4G5		
<i>Dryopteris intermedia</i>	Evergreen Woodfern	S1	G5		
<i>Huperzia porophila</i>	Fir Clubmoss	S2	G4		
<i>Isoetes engelmannii</i> var. <i>engelmannii</i>	Engelmann's Quillwort	S1?	G4TNR		
<i>Lycopodium dendroideum</i>	Round-branched Ground Pine	S1	G5		
<i>Lycopodium tristachyum</i>	Ground Cedar	S1	G5		
<i>Matteuccia struthiopteris</i> var. <i>pensylvanica</i>	Ostrich Fern	S2	G5T5		
<i>Ophioglossum crotalophoroides</i>	Bulbous Adder's-tongue	SH	G5		
<i>Ophioglossum petiolatum</i>	Stalked Adder's-tongue	SX	G5		
<i>Pellaea glabella</i> var. <i>missouriensis</i>	Missouri Cliffbrake	S1S2	G5T1T2		
<i>Pilularia americana</i>	American Pillwort	SU	G5		
<i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>	Bracken	SU	G5T5		
<i>Woodsia obtusa</i> ssp. <i>occidentalis</i>	Blunt-lobe Woodsia	S1	G5T3T4		
<i>Woodwardia areolata</i>	Netted Chain Fern	S2	G5		
Total Ferns and Fern Allies Records: 27					

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS					
<i>Acalypha deamii</i>	Large Seeded Mercury	S1	G4?		
<i>Aconitum uncinatum</i>	Southern Monkshood	S1	G4		
<i>Agalinis auriculata</i>	Auriculate False Foxglove	S3	G3		
<i>Agalinis heterophylla</i>	Prairie False Foxglove	S1	G4G5		
<i>Agalinis purpurea</i>	Purple False Foxglove	S2	G5		
<i>Agalinis viridis</i>	Green False Foxglove	S1	G4?		
<i>Agastache scrophulariifolia</i>	Purple Giant-hyssop	S1	G4		
<i>Agrimonia gryposepala</i>	Tall Agrimony	SU	G5		
<i>Allium burdickii</i>	Wild Leek	S2	G4G5		
<i>Alopecurus aequalis</i>	Floating Foxtail Grass	S2	G5		
<i>Amorpha nitens</i>	Shining False Indigo	S1	G3?		
<i>Amsonia ciliata</i> var. <i>filifolia</i>	Ciliate Blue Star	S2S3	G5?T4?		
<i>Andropogon hirsutior</i>	Bushy Bluestem	SU	G5T5		
<i>Anemone cylindrica</i>	Thimbleweed	S2	G5		
<i>Anemone quinquefolia</i> var. <i>quinquefolia</i>	Wood Anemone	S1	G5T5		
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S2	G5		
<i>Aristida adscensionis</i>	Sixweeks Three-awn	SH	G5		
<i>Aristida desmantha</i>	Curly Three-awn	S2	G5		
<i>Aristida lanosa</i>	Woollyleaf Three-awn	S1	G5		
<i>Aristida ramosissima</i>	Slender Three-awn	SH	G5		
<i>Aronia melanocarpa</i>	Black Chokeberry	S1	G5		
<i>Artemisia dracunculus</i>	A Wormwood	SH	G5		
<i>Asclepias exaltata</i>	Poke Milkweed	S1	G5		
<i>Asclepias meadii</i>	Mead's Milkweed	S2	G2	E	T
<i>Asclepias speciosa</i>	Showy Milkweed	SA	G5		
<i>Astragalus lotiflorus</i>	Low Milk Vetch	S2	G5		
<i>Astranthium ciliatum</i>	Western Daisy	S2	G5T5		
<i>Baptisia sphaerocarpa</i>	Round-fruited Yellow	SU	G4G5		
<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Wild Indigo				
	Screwstem	S1	G5T5		
<i>Bartonia virginica</i>	Yellow Bartonia	S1	G5		
<i>Berberis canadensis</i>	American Barberry	S1	G3		
<i>Bergia texana</i>	Bergia	S2	G5		
<i>Berula erecta</i> var. <i>incisa</i>	Cut-leaved Water-parsnip	S1	G4G5T4T5		
<i>Bidens beckii</i>	Water Marigold	SU	G5		
<i>Bidens laevis</i>	A Beggar's Tick	S1	G5		
<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i>	Bayonet Grass	S1	G5		
<i>Boltonia decurrens</i>	Decurrent False Aster	S1	G2G3	E	T
<i>Bouteloua gracilis</i>	Blue Grama	S1	G5		
<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	Hairy Grama	S2	G5T5		
<i>Bromus latiglumis</i>	A Brome	S3	G5		
<i>Buchloe dactyloides</i>	Buffalo Grass	SH	G4G5		
<i>Calamagrostis porteri</i> ssp. <i>insperata</i>	Oferhollow Reed Grass	S3	G4T3		
<i>Calamagrostis stricta</i> ssp. <i>inxpansa</i>	Northern Reedgrass	S2S3	G5T5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Calamovilfa longifolia</i> var. <i>longifolia</i>	Long-leaved Reed Grass	SH	G5T5		
<i>Callicarpa americana</i>	French Mulberry	S1	G5		
<i>Callirhoe bushii</i>	Bush's Poppy Mallow	S2	G3		
<i>Callirhoe triangulata</i>	Clustered Poppy Mallow	SH	G3		
<i>Callitricha palustris</i>	Vernal Water Starwort	SU	G5		
<i>Calopogon oklahomensis</i>	Grass Pink Orchid	S2	G3		
<i>Calopogon tuberosus</i>	Grass Pink Orchid	S2	G5		
<i>Caltha palustris</i>	Marsh Marigold	S1	G5		
<i>Campanula aparinoides</i> var. <i>aparinoides</i>	Marsh Bellflower	S1	G5TNR		
<i>Campanula rotundifolia</i>	Harebell	S1	G5		
<i>Carex abscondita</i>	A Sedge	S1	G4G5		
<i>Carex alata</i>	Broadwing Sedge	S2S3	G5		
<i>Carex albicans</i> var. <i>australis</i>	Bellow Beaked Sedge	S1	G5T5		
<i>Carex albolutescens</i>	Greenish-white Sedge	S1S2	G5		
<i>Carex aquatilis</i> var. <i>substricta</i>	A Sedge	SH	G5TNR		
<i>Carex atherodes</i>	Awned Sedge	SH	G5		
<i>Carex atlantica</i> ssp. <i>atlantica</i>	A Sedge	S1	G5T5		
<i>Carex atlantica</i> ssp. <i>capillacea</i>	Prickly Bog Sedge	S1	G5T5?		
<i>Carex bromoides</i> ssp. <i>bromoides</i>	A Sedge	S2	G5T5		
<i>Carex buxbaumii</i>	Brown Bog Sedge	S2	G5		
<i>Carex communis</i> var. <i>communis</i>	Fibrous-root Sedge	S2	G5T5		
<i>Carex comosa</i>	Bristly Sedge	S2	G5		
<i>Carex conoidea</i>	Field Sedge	S1	G5		
<i>Carex cumberlandensis</i>	A Sedge	S1	GNR		
<i>Carex debilis</i> var. <i>debilis</i>	White-edge Sedge	S1	G5T5		
<i>Carex decomposita</i>	Epiphytic Sedge	S3	G3G4		
<i>Carex echinodes</i>	A Sedge	SH	G5TNR		
<i>Carex fissa</i> var. <i>fissa</i>	A Sedge	S1	G4?T3T4		
<i>Carex flaccosperma</i>	A Sedge	S2	G5		
<i>Carex gigantea</i>	Giant Sedge	S1S2	G4		
<i>Carex gracillima</i>	Graceful Sedge	S1	G5		
<i>Carex inops</i> ssp. <i>heliophila</i>	Sun Sedge	SU	G5T5		
<i>Carex joorii</i>	Cypress-swamp Sedge	SH	G4G5		
<i>Carex lacustris</i>	Lake-bank Sedge	S2	G5		
<i>Carex laxiculmis</i> var. <i>copulata</i>	A Sedge	SU	G5T4		
<i>Carex laxiculmis</i> var. <i>laxiculmis</i>	A Sedge	SU	G5T5		
<i>Carex laxiflora</i> var. <i>laxiflora</i>	A Carex	S1	G5T5		
<i>Carex longii</i>	Greenish-white Sedge	SH	G5		
<i>Carex microdonta</i>	A Sedge	S1	G4		
<i>Carex missouriensis</i>	Missouri Sedge	SU	G4		
<i>Carex molestiformis</i>	A Sedge	S2	G4		
<i>Carex oxylepis</i>	Sharp-scale Sedge	S2	G5?		
<i>Carex prasina</i>	Drooping Sedge	S1	G4		
<i>Carex reniformis</i>	Reniform Sedge	S1	G4?		
<i>Carex reznicekii</i>	A Sedge	S2?	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Carex sartwellii</i>	Sartwell's Sedge	S1	G5		
<i>Carex scabrata</i>	Rough Sedge	SH	G5		
<i>Carex socialis</i>	A Sedge	S2	G4		
<i>Carex sprengelii</i>	Longbeak Sedge	S2	G5		
<i>Carex sterilis</i>	A Sedge	S2	G4G5		
<i>Carex straminea</i>	Straw Sedge	S1	G5		
<i>Carex sychnocephala</i>	A Sedge	SH	G5		
<i>Carex tetanica</i>	Rigid Sedge	S3	G4G5		
<i>Carex tonsa</i> var. <i>rugosperma</i>	Shaved Sedge	S1	G5T5		
<i>Carex tonsa</i> var. <i>tonsa</i>	Shaved Sedge	SH	G5T5		
<i>Carex triangularis</i>	Triangular Sedge	S2	G5		
<i>Carex trichocarpa</i>	Hairy-fruited Sedge	S1	G4		
<i>Carex vesicaria</i> var. <i>monile</i>	A Sedge	S2?	G5T4		
<i>Carex willdenowii</i>	Willdenow's Sedge	S1	G5		
<i>Carex woodii</i>	A Sedge	S1	G4		
<i>Carya pallida</i>	Sand Hickory	S2S3	G5		
<i>Castanea pumila</i> var. <i>ozarkensis</i>	Ozark Chinquapin	S2	G5T3		
<i>Castanea pumila</i> var. <i>pumila</i>	Chinquapin	SU	G5T5?		
<i>Castilleja purpurea</i> var. <i>purpurea</i>	Purple Paintbrush	SH	G5T4?		
<i>Castilleja sessiliflora</i>	Downy Painted Cup	S2	G5		
<i>Cayaponia quinqueloba</i>	A Gourd	S1	G4		
<i>Centaurea americana</i>	American basket flower	SH	G5		
<i>Centrosema virginianum</i>	Coastal Butterfly-pea	SH	G5		
<i>Ceratophyllum echinatum</i>	Coontail	S1?	G4		
<i>Chaetopappa asteroides</i> var. <i>asteroides</i>	Common Leastdaisy	S2S3	G5T3T5		
<i>Chasmanthium laxum</i> ssp. <i>laxum</i>	Slender Spike Grass	S1	G5		
<i>Chasmanthium laxum</i> ssp. <i>sessiliflorum</i>	A Spike Grass	SX	G5		
<i>Chelone obliqua</i>	Rose Turtlehead	S2	G4		
<i>Chenopodium berlandieri</i> var. <i>boscianum</i>	Pitseed Goosefoot	SU	G5T3T5		
<i>Chenopodium strictum</i> var. <i>glaucophyllum</i>	A Goosefoot	SH	G5TU		
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Common Water Hemlock	SU	G5T3T4		
<i>Cirsium hillii</i>	Hill's Thistle	SU	G3		
<i>Cirsium undulatum</i>	Wavy-leaved Thistle	S1	G5		
<i>Cissus trifoliata</i>	Marine Vine	S2	G5		
<i>Cladium jamaicense</i>	Jamaica Swamp Sawgrass	S1	G5T5		
<i>Clematis fremontii</i>	Fremont's Leather Flower	S3	G5		
<i>Clematis viorna</i>	A Leatherflower	S1	G5		
<i>Cleome serrulata</i>	Rocky Mountain Bee Plant	SH	G5		
<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Orchid	S1	G5T5		
<i>Coelorachis cylindrica</i>	Joint Grass	S1	G4G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Coleataenia longifolia</i> ssp. <i>longifolia</i>	Panicgrass	SU	G5T5?		
<i>Conyza canadensis</i> var. <i>pusilla</i>	Fleabane	S1S2	G5T5		
<i>Corispermum americanum</i>	American Bugseed	SU	G5?		
<i>Corispermum pallasii</i>	A Bugseed	SH	G4?		
<i>Corispermum villosum</i>	Oriental Tick-seed	SU	G4?		
<i>Corydalis aurea</i> ssp. <i>aurea</i>	Golden Corydalis	SU	G5T5		
<i>Corydalis micrantha</i> ssp. <i>australis</i>	A Corydalis	S2	G5T5?		
<i>Crataegus berberifolia</i> var. <i>berberifolia</i>	Barberry-leaved Hawthorn	SU	G4G5Q		
<i>Crataegus collina</i> var. <i>lettermanii</i>	Hillside Hawthorn	SU	GNRTNR		
<i>Crataegus collina</i> var. <i>sordida</i>	Hillside Hawthorn	SU	GNRTNR		
<i>Crataegus fecunda</i>	St. Clair Hawthorn	SU	G3?Q		
<i>Crataegus lanuginosa</i>	Woolly Hawthorn	SU	G3?Q		
<i>Crataegus macrosperma</i>	Eastern Hawthorn	SU	G5		
<i>Crataegus margarettae</i> var. <i>brownii</i>	Margaret's Hawthorn	SU	G5?TNR		
<i>Crataegus marshallii</i>	Parsley Haw	S1	G5		
<i>Crataegus pruinosa</i> var. <i>magnifolia</i>	Frosty Hawthorn	SU	G5TNR		
<i>Crataegus schuettei</i>	Royal Hawthorn	SU	G5?		
<i>Crataegus spathulata</i>	A Hawthorn	S1	G5		
<i>Crataegus spes-aestatum</i>	Summers Hawthorn	SU	GNR		
<i>Crataegus succulenta</i> var. <i>succulenta</i>	Succulent Hawthorn	SU	G5T5		
<i>Crataegus texana</i> var. <i>dasyphylla</i>	Texas Red Hawthorn	SU	GNRTNR		
<i>Crataegus transmissississippiensis</i>	A Hawthorn	SU	GNR		
<i>Crataegus viridis</i> var. <i>nitens</i>	Green Hawthorn	SU	G5TNR		
<i>Croton michauxii</i>	Narrowleaf Rushfoil	S1	G5		
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>	Peruvian Dodder	SU	G5T4T5		
<i>Cyclachaena xanthiifolia</i>	A Marsh Elder	S1	G5		
<i>Cynosciadium digitatum</i>	Finger Dog-shade	S2	G4G5		
<i>Cyperus compressus</i>	Coco Grass	S1	G5		
<i>Cyperus croceus</i>	Baldwin's Cyperus	S1	G5		
<i>Cyperus diandrus</i>	Umbrella Flatsedge	S1	G5		
<i>Cyperus flavicomus</i>	An Umbrella Sedge	S1	G5		
<i>Cyperus hystricinus</i>	Flatsedge	S2	G4		
<i>Cyperus plukenetii</i>	Plukenet's Cyperus	S2	G5		
<i>Cyperus retroflexus</i>	Umbrella Sedge	S1	G5		
<i>Cyperus retrofractus</i>	Teasel-like Cyperus	S1S2	G5		
<i>Cyperus retrorsus</i>	An umbrella sedge	SH	G5		
<i>Cyperus schweinitzii</i>	Schweinitz's Flatsedge	S3	G5		
<i>Cyperus setigerus</i>	Bristled Cyperus	S1	G3G5		
<i>Cypripedium candidum</i>	Small White Lady-slipper	S1	G4		
<i>Cypripedium reginae</i>	Showy Lady-slipper	S2S3	G4G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Dalea enneandra</i>	Nine-anther Dalea	S2	G5		
<i>Dalea gattingeri</i>	Gattinger Prairie-clover	S1	G3G4		
<i>Dalea multiflora</i>	Round-headed Prairie Clover	SH	G5		
<i>Dalea villosa</i> var. <i>villosa</i>	Silky Prairie Clover	SU	G5T5		
<i>Decodon verticillatus</i>	Swamp Loosestrife	S1	G5		
<i>Delphinium exaltatum</i>	Tall Larkspur	S2	G3		
<i>Descurainia pinnata</i> ssp. <i>pinnata</i>	Tansy Mustard	S2S3	G5T5		
<i>Desmodium ochroleucum</i>	Creamflower Tick Trefoil	SH	G2		
<i>Desmodium strictum</i>	Pineland Tick Trefoil	S2	G4		
<i>Desmodium viridiflorum</i>	Velvety Tick Trefoil	S1	G5?		
<i>Diarrhena americana</i>	American Beakgrain	S1	G4G5		
<i>Dichanthelium dichotomum</i> ssp. <i>mattamuskeetense</i>	A Panic Grass	SH	G4?		
<i>Dichanthelium dichotomum</i> var. <i>nitidum</i>	A Panic Grass	S1	G5TNR		
<i>Dichanthelium leibergii</i>	A Panic Grass	SU	G4		
<i>Dichanthelium yadkinense</i>	A Panic Grass	S1	G4Q		
<i>Dichondra carolinensis</i>	Pony-foot Grass	S1	G5		
<i>Dirca decipiens</i>	Leatherwood	SU	G1G2		
<i>Distichlis spicata</i> var. <i>spicata</i>	Seashore Salt Grass	S1	G5TNR		
<i>Doellingeria umbellata</i> var. <i>pubens</i>	Flat-topped White Aster	S1	G5T5		
<i>Echinacea angustifolia</i>	Narrow-leaved Coneflower	S1	G4		
<i>Echinochloa walteri</i>	A Barnyard Grass	S1	G5		
<i>Echinodorus tenellus</i>	Dwarf Burhead	S1	G5?		
<i>Elatine triandra</i> var. <i>americana</i>	Waterwort	SH	G4		
<i>Elatine triandra</i> var. <i>triandra</i>	Waterwort	SH	G5		
<i>Eleocharis atropurpurea</i>	A Spike Rush	S1	G4G5		
<i>Eleocharis bifida</i>	Glades Spikerush	S1	G3G4		
<i>Eleocharis equisetoides</i>	Horsetail Spike Rush	SH	G4		
<i>Eleocharis lanceolata</i>	Lance-like Spike Rush	S2	G4G5		
<i>Eleocharis parvula</i>	Small Spike Rush	SU	G5		
<i>Elodea canadensis</i>	Broad Waterweed	SU	G5		
<i>Elymus churchii</i>	Church's Wildrye	S1	G2G3		
<i>Elymus glaucus</i>	Blue Wild Rye	SU	G5		
<i>Epifagus virginiana</i>	Beech Drops	S2	G5		
<i>Epilobium leptophyllum</i>	Willow Herb	S1	G5		
<i>Eragrostis curtipedicellata</i>	Gummy Lovegrass	S1	G5		
<i>Eragrostis glomerata</i>	A Love Grass	S1	G3G5		
<i>Eragrostis reptans</i>	Creeping Love Grass	SH	G5		
<i>Erianthus giganteus</i>	Plume Grass	S1	G5		
<i>Erianthus strictus</i>	Narrow Plumegrass	SH	G5		
<i>Eriogonum longifolium</i> var. <i>longifolium</i>	Umbrella Plant	S2	G4T4		
<i>Erysimum capitatum</i> var. <i>capitatum</i>	Western Wallflower	S3?	G5T5		
<i>Euonymus americanus</i>	Strawberry Bush	S2	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Eupatorium album</i>	White Thoroughwort	SU	G5		
<i>Eupatorium maculatum</i> var. <i>bruneri</i>	Spotted Joe-pye Weed	S1	G5T5		
<i>Eupatorium rotundifolium</i> var. <i>scabridum</i>	A Thoroughwort	S1?	G5T3T5		
<i>Eupatorium semiserratum</i>	A Thoroughwort	S1S2	G5		
<i>Euphorbia geyeri</i> var. <i>geyeri</i>	Geyer's Spurge	S1	G5T5		
<i>Euphorbia ouachitana</i>	A Spurge	SU	GNR		
<i>Eurybia furcata</i>	Forked Aster	S2	G3		
<i>Eurybia macrophylla</i>	Big-leaved Aster	S2	G5		
<i>Festuca sororia</i>	A Fescue	SH	G4		
<i>Filipendula rubra</i>	Queen of the Prairie	S2	G4G5		
<i>Fimbristylis littoralis</i> var. <i>littoralis</i>	A Fimbristylis	S1	G3G5TNR		
<i>Fimbristylis perpusilla</i>	Harper's Fimbray	SH	G2		
<i>Floerkea proserpinacoides</i>	False Mermaid	SU	G5		
<i>Fragaria vesca</i>	Woodland Strawberry	S1	G5		
<i>Fraxinus biltmoreana</i>	Biltmore Ash	SU	G5		
<i>Fuirena simplex</i> var. <i>aristulata</i>	An Umbrella Grass	S2?	G5T4		
<i>Gaillardia aestivalis</i> var. <i>flavovirens</i>	A Blanket Flower	SH	G5T3T5		
<i>Galium boreale</i>	Northern Bedstraw	S2	G5		
<i>Gaylussacia baccata</i>	Black Huckleberry	S1	G5		
<i>Gentiana andrewsii</i> var. <i>andrewsii</i>	Closed Gentian	S1	G5?T5?		
<i>Geocarpon minimum</i>	Geocarpon	S2	G2	E	T
<i>Geum fragarioides</i>	Barren Strawberry	S2	G5T5		
<i>Gillenia trifoliata</i>	Indian Physic	SH	G4G5		
<i>Glyceria acutiflora</i>	Sharp-scaled Manna Grass	S3	G5		
<i>Glyceria septentrionalis</i> var. <i>arkansana</i>	Eastern Manna Grass	SU	G5		
<i>Glycyrrhiza lepidota</i> var. <i>lepidota</i>	Wild Licorice	S1	G5TNRQ		
<i>Gratiola viscidula</i>	Hedge Hyssop	S1	G4G5		
<i>Grindelia ciliata</i>	A Goldenweed	S1	G4G5		
<i>Helenium virginicum</i>	Virginia Sneezeweed	S3	G3	E	T
<i>Helianthemum canadense</i>	A Rockrose	SU	G5		
<i>Helianthus angustifolius</i>	Swamp Sunflower	S2	G5		
<i>Helianthus decapetalus</i>	Thin-leaved Sunflower	SU	G5		
<i>Heliotropium curassavicum</i> var. <i>curassavicum</i>	Seaside Heliotrope	S1	G5T5		
<i>Heteranthera reniformis</i>	Mud Plantain	SU	G5		
<i>Heterotheca canescens</i>	Hoary Golden Aster	SH	G5?		
<i>Heuchera parviflora</i> var. <i>parviflora</i>	Little Leaved Alum Root	S1	G4T4		
<i>Hottonia inflata</i>	Featherfoil	S2	G4		
<i>Houstonia canadensis</i>	Canadian Summer Bluet	S1	G4G5		
<i>Houstonia rosea</i>	Rose Bluets	SU	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Hydrocotyle ranunculoides</i>	Floating Pennywort	S1S2	G5		
<i>Hydrocotyle verticillata</i>	Water Pennywort	S1	G5		
<i>Hydrolea ovata</i>	Ovate Fiddleleaf	S2	G5		
<i>Hypericum adpressum</i>	Creeping St. John's-wort	S1	G3		
<i>Hypericum lobocarpum</i>	A St. John's Wort	S1	G4Q		
<i>Hypericum majus</i>	Greater St. John's-wort	SH	G5		
<i>Hypericum pyramidatum</i>	Great St. John's-wort	S1	G4T4		
<i>Ilex verticillata</i> var. <i>padifolia</i>	Winterberry	S3	G5TNR		
<i>Isolepis molesta</i>	Gulf Coast Bulrush	SH	G4?		
<i>Isotria medeoloides</i>	Small Whorled Pogonia	SH	G2?	E	T
<i>Isotria verticillata</i>	Large Whorled Pogonia	S1S2	G5		
<i>Juncus alpinoarticulatus</i>	Richardson Rush	SH	G5		
<i>Juncus balticus</i> var. <i>littoralis</i>	Baltic Rush	S1	G5T5		
<i>Juncus brachyphyllus</i>	Small-headed Rush	S1	G5		
<i>Juncus bufonius</i> var. <i>bufonius</i>	Toad Rush	S1	G5T5		
<i>Juncus canadensis</i> var. <i>canadensis</i>	Canada Rush	S1	G5T5		
<i>Juncus debilis</i>	Weak Rush	S1	G5		
<i>Juncus filipendulus</i>	Ringseed Rush	SU	G5		
<i>Juncus nodosus</i>	Knotted Rush	SH	G5		
<i>Juncus validus</i>	A Rush	S1	G5		
<i>Justicia ovata</i> var. <i>lanceolata</i>	A Water Willow	S2	G5T4T5		
<i>Kellochloa verrucosa</i>	Warty Panicgrass	S1	G4		
<i>Lactuca hirsuta</i>	Hairy Lettuce	SU	G5?		
<i>Lactuca ludoviciana</i>	Western Lettuce	SH	G4G5		
<i>Lactuca tatarica</i> ssp. <i>pulchella</i>	Blue Lettuce	S1	G5T5		
<i>Lathyrus pusillus</i>	A Wild Pea	SH	G5?		
<i>Lathyrus venosus</i>	Bushy Vetchling	SU	G5		
<i>Leavenworthia torulosa</i>	Necklace Goldcress	SU	G4		
<i>Lechea racemulosa</i>	Illinois Pinweed	SH	G5		
<i>Leitneria pilosa</i> ssp. <i>ozarkana</i>	Corkwood	S2	GNRTNR		
<i>Lemna obscura</i>	A Duckweed	SU	G5		
<i>Lemna trisulca</i>	Star Duckweed	S2	G5		
<i>Lemna turionifera</i>	A Duckweed	SH	G5		
<i>Liatris punctata</i> var. <i>punctata</i>	A Blazing Star	S3	G5T5		
<i>Liatris scariosa</i> var. <i>nieuwlandii</i>	A Blazing Star	S2	G5?T3T5		
<i>Liatris spicata</i>	Button Snakeroot	SX	G5		
<i>Lilium philadelphicum</i> var. <i>andinum</i>	Wood Lily	S1	G5T4T5		
<i>Lilium superbum</i>	Turk's Cap Lily	S1	G5		
<i>Limnobium spongia</i> ssp. <i>spongia</i>	American Frogbit	S2	G4		
<i>Limnosciadium pinnatum</i>	Pinnate Dogshade	S1	G5?		
<i>Limosella aquatica</i>	Mudwort	SH	G5		
<i>Lindera melissifolia</i>	Pondberry	S1	G3	E	E
<i>Linum floridanum</i> var. <i>floridanum</i>	Florida Yellow Flax	SU	G5?T5?		
<i>Liparis loeselii</i>	Loesel's Twayblade	S2	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Lipocarpha aristulata</i>	Lipocarpha	SH	G5?		
<i>Lipocarpha drummondii</i>	A Lipocarpha	S1	G4G5		
<i>Lippia nodiflora</i>	Fog Fruit	SH	G5		
<i>Listera australis</i>	Southern Twayblade	S1	G4		
<i>Lithospermum latifolium</i>	American Gromwell	S2	G4		
<i>Lobelia puberula</i>	Downy Lobelia	SH	G5		
<i>Lomatium foeniculaceum</i> ssp. <i>foeniculaceum</i>	Hairy Parsley	S1S3	G5T5		
<i>Ludwigia glandulosa</i> ssp. <i>glandulosa</i>	Cylindricfruit Primrose-willow	S2	G5T5		
<i>Ludwigia leptocarpa</i>	Primrose Willow	S2	G5		
<i>Ludwigia linearis</i>	Narrow-leaved Primrose	S1	G5		
<i>Ludwigia microcarpa</i>	A False Loosestrife	S2	G5		
<i>Ludwigia repens</i>	A False Loosestrife	SU	G5		
<i>Lycopus asper</i>	Bugle Weed	SH	G5		
<i>Lycopus uniflorus</i>	Northern Bugleweed	S1	G5		
<i>Lygodesmia juncea</i>	Skeleton Plant	S3	G5		
<i>Lyonia mariana</i>	Stagger Bush	SH	G5		
<i>Lysimachia terrestris</i>	Swamp Candle	S1	G5		
<i>Lysimachia thyrsiflora</i>	Tufted Loosestrife	S1	G5		
<i>Maianthemum stellatum</i>	Starry False Solomon's Seal	SU	G5		
<i>Malus angustifolia</i>	Narrow-leaved Wild Crab	S2	G5?		
<i>Malvastrum angustum</i>	Yellow False Mallow	S3	G3G5		
<i>Marshallia caespitosa</i> var. <i>caespitosa</i>	Barbara's Buttons	S3	G4T4		
<i>Marshallia caespitosa</i> var. <i>signata</i>	Barbara's Buttons	S1	G4T4		
<i>Mecardonia acuminata</i>	Water Hyssop	S1	G5		
<i>Medeola virginiana</i>	Indian Cucumber-root	SH	G5		
<i>Melica mutica</i>	Two-flowered Melic Grass	S1	G5		
<i>Melothria pendula</i>	Creeping Cucumber	S3	G5?		
<i>Menyanthes trifoliata</i>	Bogbean	S1	G5		
<i>Mimosa strigillosa</i>	Powderpuff	S1	G4G5		
<i>Mimulus glaberratus</i> var. <i>jamesii</i>	Roundleaf Monkey Flower	SH	G5T5		
<i>Minuartia muscorum</i>	Dixie Stitchwort	S1	GNR		
<i>Mirabilis linearis</i> var. <i>linearis</i>	Narrow-leaved Four-o'clock	SU	G5TNR		
<i>Mitreola petiolata</i>	Miterwort	S1	G5		
<i>Moehringia lateriflora</i>	Grove Sandwort	S2S3	G5		
<i>Monarda clinopodia</i>	A Horsemint	S1	G5		
<i>Monarda punctata</i> var. <i>arkansana</i>	Arkansas Bee Balm	SA	G5TNR		
<i>Monarda punctata</i> var. <i>occidentalis</i>	Dotted Monarda	SA	G5T4T5		
<i>Monarda punctata</i> var. <i>villicaulis</i>	Horsemint	S3	G5T5?		
<i>Muhlenbergia asperifolia</i>	Scratchgrass	S1	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Muhlenbergia cuspidata</i>	Plains Muhly	SU	G5		
<i>Muhlenbergia glabrifloris</i>	Inland Muhly	SU	G4?		
<i>Najas flexilis</i>	A Naiad	SH	G5		
<i>Najas gracillima</i>	Thread-like Naiad	S2	G5?		
<i>Nemastylis geminiflora</i>	Prairie Iris	S2	G4		
<i>Neiviusia alabamensis</i>	Snow Wreath	SH	G2		
<i>Nothocalais cuspidata</i>	Prairie Dandelion	S2	G5		
<i>Nyssa biflora</i>	Swamp Black Gum	SH	G5		
<i>Obularia virginica</i>	Virginia Pennywort	S2	G5		
<i>Oenothera clelandii</i>	Evening Primrose	S2	G3G5		
<i>Oenothera fruticosa</i> ssp. fruticosa	Shrubby Sundrops	S1	G5T5		
<i>Oenothera fruticosa</i> ssp. <i>glaucia</i>	Shrubby Sundrops	SH	G5T5		
<i>Oenothera glaucifolia</i>	Stenosiphon	S2	G5		
<i>Oenothera grandis</i>	Cut-leaved Evening Primrose	SU	G5?		
<i>Oenothera nutans</i>	Nodding Evening Primrose	S1S2	G4		
<i>Oenothera parviflora</i>	Northern Evening Primrose	SU	G5		
<i>Oenothera perennis</i>	Small Sundrops	S1	G5		
<i>Oenothera rhombipetala</i>	An Evening Primrose	SH	G4G5		
<i>Oenothera suffrutescens</i>	Scarlet Gaura	S1	G5		
<i>Oenothera triloba</i>	Stemless Evening Primrose	S2	G4		
<i>Oldenlandia boscii</i>	A Bluet	S1	G5		
<i>Oldenlandia uniflora</i>	Clustered Bluets	S1	G5		
<i>Opuntia macrorhiza</i> var. <i>macrorhiza</i>	Low Prickly Pear	S2	G5T5		
<i>Orobanche ludoviciana</i>	A Broomrape	S1	G5		
<i>Orobanche riparia</i>	A Broomrape	S1	G4?		
<i>Oxytropis lambertii</i> var. <i>lambertii</i>	Locoweed	S2	G5TNR		
<i>Packera tomentosa</i>	Hairy Groundsel	SH	G4G5		
<i>Paronychia virginica</i>	Virginia Whitlow Wort	S1	G4		
<i>Paspalum bifidum</i>	Pitchfork Paspalum	S1	G5		
<i>Paspalum dissectum</i>	Mudbank Paspalum	SH	G4?		
<i>Paspalum setaceum</i> var. <i>setaceum</i>	Slender Paspalum	S1	G5T5		
<i>Patis racemosa</i>	Black-seeded Mountain Rice	S1	G5		
<i>Pediomelum argophyllum</i>	Silvery Psoralea	S2	G5		
<i>Peltandra virginica</i> ssp. <i>virginica</i>	Arrow Arum	S2	G5T5		
<i>Penstemon cobaea</i> var. <i>purpureus</i>	Purple Beard-tongue	S3	G4TNRQ		
<i>Penstemon grandiflorus</i>	Large Beard-tongue	S1	G5?		
<i>Penstemon tenuis</i>	Gulf Coast Beard-tongue	SU	G4		
<i>Perideridia americana</i>	Eastern Eulophus	S2	G4		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Persicaria amphibia</i> var. <i>stipulacea</i>	Water Smartweed	S1	G5T5		
<i>Persicaria arifolia</i>	Halberd-leaved Tear Thumb	S1	G5		
<i>Persicaria bicornis</i>	Pink Smartweed	SU	GNR		
<i>Persicaria glabra</i>	Dense-flower Smartweed	S1S2	G5		
<i>Persicaria robustior</i>	Dotted Smartweed	SH	G4G5		
<i>Phacelia covillei</i>	Coville's Phacelia	S1	G3		
<i>Philadelphus pubescens</i> var. <i>verrucosus</i>	Mock Orange	S1	G5?TU		
<i>Phlox amplifolia</i>	Large-leaved Phlox	S3?	G3G5		
<i>Phlox bifida</i>	Bifid Phlox	S1	G5?		
<i>Phlox maculata</i> ssp. <i>pyramidalis</i>	Wild Sweet William	S2	G5T4T5		
<i>Phyllanthus polygonoides</i>	Knotweed Leaf-flower	S1	G5		
<i>Physalis grisea</i>	Strawberry-tomato	SU	G5?		
<i>Physalis missouriensis</i>	Missouri Groundcherry	SU	G5?		
<i>Physaria filiformis</i>	Missouri Bladderpod	S3	G3	E	T
<i>Physostegia intermedia</i>	A False Dragonhead	S1	G5		
<i>Plantago heterophylla</i>	Slender Plantain	SU	G5		
<i>Plantago patagonica</i>	Woolly Plantain	S2	G5		
<i>Platanthera ciliaris</i>	Yellow-fringed Orchid	S1	G5		
<i>Platanthera clavellata</i>	Green Wood Orchid	S2	G5		
<i>Platanthera flava</i> var. <i>flava</i>	Pale Green Orchid	S2	G4?T4?Q		
<i>Platanthera flava</i> var. <i>herbiola</i>	Northern Rein Orchid	S2	G4?T4Q		
<i>Platanthera leucophaea</i>	Eastern Prairie Fringed Orchid	S1	G2G3	E	T
<i>Platanthera praeculta</i>	Western Prairie Fringed Orchid	S1	G3	E	T
<i>Platanthera psycodes</i>	Small Purple-fringed Orchid	SX	G5		
<i>Pluchea foetida</i> var. <i>foetida</i>	March Fleabane	SH	G5T5		
<i>Pogonia ophioglossoides</i>	Snake-mouth Orchid	S1	G5		
<i>Polygonum americanum</i>	Jointweed	S2	G5		
<i>Polymnia laevigata</i>	Smooth Leaf-cup	SX	G3		
<i>Populus grandidentata</i>	Big-toothed Aspen	S1	G5		
<i>Populus tremuloides</i>	Quaking Aspen	S2	G5		
<i>Portulaca pilosa</i>	Kiss Me Quick	SU	G5		
<i>Potamogeton epihydrus</i>	Nuttall Pondweed	SH	G5		
<i>Potamogeton pulcher</i>	Spotted Pondweed	S2S3	G5		
<i>Potamogeton pusillus</i> var. <i>pusillus</i>	Slender Pondweed	S3	G5T5		
<i>Potentilla supina</i> ssp. <i>paradoxa</i>	Bushy Cinquefoil	S2	G5		
<i>Prenanthes racemosa</i>	Rattlesnake Root	SH	G5		
<i>Primula fassettii</i>	Amethyst Shooting Star	S2	G4		
<i>Primula frenchii</i>	French's Shooting Star	S1	G3		
<i>Proserpinaca palustris</i> var. <i>palustris</i>	Mermaid Weed	SU	G5T5		
<i>Pseudognaphalium helleri</i>	Heller's Cudweed	SU	G4G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Pseudognaphalium micradenium</i>	Rabbit Tobacco	SU	G4G5T3?		
<i>Ptilimnium capillaceum</i>	Mock Bishop's Weed	SH	G5		
<i>Pycnanthemum muticum</i>	Blunt Mountain Mint	S2	G5		
<i>Pycnanthemum torrei</i>	Torrey Mountain Mint	SH	G2		
<i>Quercus ellipsoidalis</i>	Northern Pin Oak	S1	G5		
<i>Quercus margarettiae</i>	Sand Post Oak	SRF	G5		
<i>Quercus nigra</i>	Water Oak	S2	G5		
<i>Quercus prinoides</i>	Dwarf Chinquapin Oak	S3?	G5		
<i>Quercus texana</i>	Nuttall's Oak	S2	G4G5		
<i>Ranunculus cymbalaria</i>	Seaside Crowfoot	SH	G5		
<i>Rhynchosia difformis</i>	Double-formed Snoutbean	S1	G5?		
<i>Rhynchospora globularis</i> var. <i>globularis</i>	Globe Beaksedge	S1	G5?T5?		
<i>Rhynchospora glomerata</i>	Clustered Beaksedge	SU	G5		
<i>Rhynchospora harveyi</i>	Harvey's Beak-rush	S1	G4		
<i>Rhynchospora macrostachya</i> var. <i>macrostachya</i>	Horned Rush	S1	G4T4Q		
<i>Rhynchospora scirpoides</i>	Longbeak Beaksedge	SU	G4		
<i>Ribes americanum</i>	Gooseberry	S1	G5		
<i>Rorippa aquatica</i>	Lake Cress	S2	G4?		
<i>Rosa blanda</i>	Smooth Rose	S1	G5		
<i>Rosa foliolosa</i>	White Prairie Rose	S1	G5		
<i>Rubus plicatifolius</i>	A Blackberry	SU	G5		
<i>Rubus rosa</i>	Rose Blackberry	SU	G5		
<i>Rubus satis</i>	Ithaca Blackberry	SU	G4G5Q		
<i>Rudbeckia amplexicaulis</i>	Clasping Leaved Coneflower	S?	G5		
<i>Rudbeckia bicolor</i>	Pine-woods Coneflower	S1	G3G5		
<i>Rudbeckia grandiflora</i> var. <i>grandiflora</i>	Rough Coneflower	S1	G5T4?		
<i>Ruppia maritima</i>	Ditch Grass	S1	G5		
<i>Sabatia brachiata</i>	Marsh Pink	S1	G5?		
<i>Sacciolepis striata</i>	American Cupscale	S1	G5		
<i>Sagina procumbens</i>	Matted Pearlwort	SU	G5		
<i>Sagittaria ambigua</i>	Kansas Arrowhead	S1	G2?		
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead	S1	G5		
<i>Salix discolor</i>	Pussy Willow	S1	G5		
<i>Salix famelica</i>	Diamond Willow	SU	G5T5		
<i>Salix petiolaris</i>	Meadow Willow	S1	G5		
<i>Sambucus pubens</i>	Red-berried Elderberry	S1	G4G5Q		
<i>Sanicula smallii</i>	Black Snakeroot	SH	G5		
<i>Sapindus saponaria</i> var. <i>drummondii</i>	Soapberry	S2	G5T5		
<i>Schoenoplectiella hallii</i>	Hall's Bulrush	S2	G2G3		
<i>Schoenoplectiella purshiana</i>	Weakstalk Bulrush	S2	G4G5		
<i>Schoenoplectiella saximontana</i>	Rocky Mountain Bulrush	S1	G5		
<i>Schoenoplectus americanus</i>	Olney's Bulrush	SH	G5		
<i>Schoenoplectus californicus</i>	Giant Bulrush	S1	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Schoenoplectus deltarum</i>	Delta Bulrush	SH	G3G4		
<i>Schoenoplectus etuberculatus</i>	Canby's Bulrush	SH	G3G4		
<i>Schoenoplectus heterochaetus</i>	Giant Bulrush	SU	G5		
<i>Schoenoplectus subterminalis</i>	Swaying Rush	S1	G5		
<i>Schoenoplectus torreyi</i>	Torrey's Bulrush	SH	G5?		
<i>Scirpus divaricatus</i>	A Bulrush	SH	G5		
<i>Scirpus pallidus</i>	Pale Bulrush	S2	G5		
<i>Scirpus pedicellatus</i>	A Bulrush	S2	G4		
<i>Scleria reticularis</i> var. pubescens	Muhlenberg's Nut-rush	S1	G5		
<i>Scrophularia lanceolata</i>	Early Figwort	SH	G5		
<i>Scutellaria elliptica</i> var. <i>hirsuta</i>	Hairy Skullcap	SH	G5T5		
<i>Scutellaria galericulata</i>	Marsh Skullcap	S1	G5		
<i>Sida elliottii</i>	Elliott Sida	S1	G4G5		
<i>Sisyrinchium atlanticum</i>	Eastern Blue-eyed Grass	S2	G5		
<i>Smilax illinoensis</i>	Carrion Flower	S2S3	G4?		
<i>Solanum elaeagnifolium</i>	White Horse Nettle	SU	G4G5		
<i>Solidago riddellii</i>	Riddell's Goldenrod	S3	G5		
<i>Solidago rigida</i> ssp. <i>humilis</i>	Stiff Goldenrod	SU	G5T5		
<i>Spermolepis diffusa</i>	Rough-fruit Spermolepis	S1	GNR		
<i>Sphenopholis pensylvanica</i>	Swamp Oats	SH	G4		
<i>Spiraea alba</i> var. <i>alba</i>	Meadow-sweet	S1	G5T5		
<i>Spiraea tomentosa</i>	Hardhack	S1	G5		
<i>Spiranthes praecox</i>	Greenvein Ladies' Tresses	S1	G5		
<i>Sporobolus airoides</i>	Alkali Sacaton	SH	G5		
<i>Stachys aspera</i>	Hedge Nettle	SH	G4?		
<i>Steinchisma hians</i>	Gaping Panic Grass	S3	G5		
<i>Stylosma pickeringii</i> var. <i>pattersonii</i>	A Stylosma	S1	G4T4		
<i>Styrax grandifolius</i>	Bigleaf Snowbell	SU	G5		
<i>Sullivantia sullivantii</i>	Sullivantia	S2	G4		
<i>Symporicarpos occidentalis</i>	Wolfberry	S1	G5		
<i>Sympyotrichum ciliatum</i>	Rayless Alkali Aster	SH	G5		
<i>Sympyotrichum patens</i> var. <i>gracile</i>	Spreading Aster	SU	G5T4T5		
<i>Sympyotrichum racemosum</i> var. <i>subdumosum</i>	Small White Aster	S2	G4G5T3T5Q		
<i>Thalia dealbata</i>	Water Canna	S2	G4		
<i>Thelesperma filifolium</i>	Thelesperma	S2	G4G5		
<i>Tilia americana</i> var. <i>heterophylla</i>	White Basswood	SU	G5T5		
<i>Tipularia discolor</i>	Cranefly Orchid	S3	G4G5		
<i>Torreochloa pallida</i> var. <i>pallida</i>	Pale Manna Grass	S1	G5T5?		
<i>Tradescantia ozarkana</i>	Ozark Spiderwort	S2	G3		
<i>Tragia cordata</i>	Heart-leaved Noseburn	S2	G4		
<i>Trautvetteria carolinensis</i>	False Bugbane	S2	G5		
<i>Trepocarpus aethusae</i>	Trepocarpus	S1	G4G5		
<i>Triadenum tubulosum</i>	Marsh St. John's Wort	S1	G4?		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLOWERING PLANTS (Cont.)					
<i>Trichostema setaceum</i>	Blue Curls	S1	G5		
<i>Tridens flavus</i> var. <i>chapmanii</i>	A Grass	S2	G5T3		
<i>Tridens muticus</i> var. <i>elongatus</i>	Slim Tridens	SH	G5T4?		
<i>Trifolium carolinianum</i>	Carolina Clover	S1	G5		
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	S1	G3	E	E
<i>Trillium nivale</i>	Snow Trillium	S3	G4		
<i>Trillium pusillum</i> var. <i>ozarkanum</i>	Ozark Wake Robin	S2	G3T3		
<i>Triodanis holzingeri</i>	A Venus' Looking Glass	SH	G4		
<i>Triodanis lamprosperma</i>	A Venus' Looking Glass	S2	G5?		
<i>Turritis glabra</i>	Tower Mustard	S1	G5		
<i>Typha domingensis</i>	Southern Cattail	S1	G4G5		
<i>Ulmus crassifolia</i>	Cedar Elm	S1	G5		
<i>Ulmus thomasi</i>	Rock Elm	S2	G5		
<i>Urtica chamaedryoides</i>	Weak Nettle	S1	G4G5		
<i>Utricularia minor</i>	Lesser Bladderwort	S1	G5		
<i>Utricularia subulata</i>	Slender Bladderwort	S1	G5		
<i>Valerianella ozarkana</i>	Ozark Corn Salad	S2	G3		
<i>Veronica americana</i>	American Brooklime	SH	G5		
<i>Viburnum bracteatum</i>	Ozark Arrow Wood	S1S2	G1G2		
<i>Viburnum dentatum</i>	Southern Arrow-wood	S1	G5		
<i>Viburnum lentago</i>	Nannyberry	S1	G5		
<i>Viburnum recognitum</i>	Northern Arrow-wood	S1	G4G5		
<i>Vicia ludoviciana</i> ssp. <i>leavenworthii</i>	Louisiana Vetch	SH	G5T5		
<i>Vicia minutiflora</i>	Pygmy-flowered Vetch	SH	G5		
<i>Viola affinis</i>	Sand Violet	S1	G5		
<i>Viola pallens</i>	Smooth White Violet	S2	G5T5		
<i>Vitis rotundifolia</i> var. <i>rotundifolia</i>	Muscadine	S1	G5T5		
<i>Wolffia borealis</i>	Dotted Watermeal	SU	G5		
<i>Wolffia columbiana</i>	Columbia Water-meal	SU	G5		
<i>Wolffiella gladiata</i>	Wolffiella	S1	G5		
<i>Xyris jupicai</i>	Yellow-eyed-grass	S1	G5		
<i>Xyris torta</i>	Yellow-eyed Grass	S1	G5		
<i>Yucca arkansana</i>	Arkansas Yucca	S2	G5		
<i>Yucca glauca</i>	Small Soapweed Yucca	S2	G5		
<i>Zannichellia palustris</i> var. <i>major</i>	Horned Pondweed	S3?	G5TNR		
<i>Zigadenus elegans</i> ssp. <i>glaucus</i>	White Camas	S2	G5T4T5		
<i>Zigadenus nuttallii</i>	Death Camas	S1	G5		
<i>Zizania palustris</i> var. <i>interior</i>	Interior Wild Rice	SH	G4G5T4T5		

Total Flowering Plant Records: 534

FLATWORMS

<i>Macrocytula glandulosa</i>	Pink Planarian	S1	G2G3
<i>Macrocytula lewisi</i>	Lewis' Cave Planarian	S1	G1
<i>Sphaloplana evaginata</i>	Perryville Cave Planarian	S1	G1G2

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FLATWORMS (Cont.)					
<i>Sphaloplana hubrichti</i>	Hubricht's Cave Planarian	S1	G2G4		
Total Flatworm Records: 4					
MOLLUSKS					
<i>Alasmidonta marginata</i>	Elktoe	S2	G4		
<i>Alasmidonta viridis</i>	Slippershell Mussel	S1	G4G5	E	
<i>Amnicola stygius</i>	Stygian Amnicola	S1	G1		
<i>Anodontoides ferussacianus</i>	Cylindrical Papershell	S1	G5		
<i>Antrobia culveri</i>	Tumbling Creek Cavesnail	S1	G1	E	E
<i>Arcidens confragosus</i>	Rock Pocketbook	S3	G4		
<i>Campeloma crassulum</i>	Ponderous Campeloma	SU	G5		
<i>Cyclonaias nodulata</i>	Wartyback	S3	G4		
<i>Cyprogenia aberti</i>	Western Fanshell	S2	G2G3Q		
<i>Discus nigrimontanus</i>	Black Mountain Disc	S3	G4		
<i>Elliptio crassidens</i>	Elephantear	S1	G5	E	
<i>Epioblasma curtisii</i>	Curtis Pearlymussel	S1	G1	E	E
<i>Epioblasma triquetra</i>	Snuffbox	S1	G3	E	E
<i>Fontigens aldrichi</i>	Hoosier Springsnail	S4	G4		
<i>Fontigens antroecetes</i>	Missouri Cavesnail	S2	G2		
<i>Fontigens proserpina</i>	Proserpine Cavesnail	S1	G1		
<i>Gastrocopta cristata</i>	Crested Snaggletooth	S1	G5		
<i>Gastrocopta pellucida</i>	Slim Snaggletooth	S1	G5		
<i>Hendersonia occulta</i>	Cherrystone Snail	S3	G4		
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	E
<i>Lampsilis brittii</i>	Northern Brokenray	S3	G4T3		
<i>Lampsilis higginsii</i>	Higgins Eye	S1	G1G2	E	E
<i>Lampsilis rafinesqueana</i>	Neosho Mucket	S2	G2	E	E
<i>Leptodea leptodon</i>	Scaleshell	S1	G1G2	E	E
<i>Leptoxis arkansensis</i>	Arkansas Mudalia	S1	G1		
<i>Ligumia recta</i>	Black Sandshell	S2	G4G5		
<i>Lioplax sulculosa</i>	Furrowed Lioplax	S1	G5		
<i>Margaritifera monodonta</i>	Spectaclecase	S3	G3	E	E
<i>Marstonia ozarkensis</i>	Ozark Pyrg	SH	G1		
<i>Marstonia scalariformis</i>	Moss Pyrg	S1	G1		
<i>Mesodon mitchellianus</i>	Sealed Goblet	S1	G4		
<i>Micromenetus sampsoni</i>	Sampson Sprite	S2	G2G3Q		
<i>Millerelix deltoidea</i>	Oklahoma Liptooth	SU	G2		
<i>Neohelix divesta</i>	Ozark Whitelip	S3	G3G4		
<i>Obovaria arkansensis</i>	Southern Hickorynut	S1	GNR		
<i>Obovaria olivaria</i>	Hickorynut	S3	G4		
<i>Patera perigrapta</i>	Engraved Bladetooth	S2	G5		
<i>Plectomerus dombeyanus</i>	Bankclimber	S3	G5		
<i>Plethobasus cyphyus</i>	Sheepnose	S2	G3	E	E
<i>Pleurocera alveare</i>	Rugged Hornsnail	S1S3	G3		
<i>Potamilus capax</i>	Fat Pocketbook	S1	G2	E	E
<i>Ptychobranchus occidentalis</i>	Ouachita Kidneyshell	S3	G3G4		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MOLLUSKS (Cont.)					
<i>Quadrula fragosa</i>	Winged Mapleleaf	S1	G1	E	E
<i>Reginaia ebenus</i>	Ebonyshell	S1	G4G5	E	
<i>Simpsonaias ambigua</i>	Salamander Mussel	S1	G3	E	
<i>Somatogyrus depressus</i>	Sandbar Pebblesnail	S2	G2		
<i>Somatogyrus rosewateri</i>	Elk Pebblesnail	S1	G1		
<i>Stagnicola elodes</i>	Marsh Pondsail	S2	G5		
<i>Stenotrema stenotrema</i>	Inland Slitmouth	S3	G5		
<i>Strobilops affinis</i>	Eightfold Pinecone	S2	G4		
<i>Theliderma cylindrica</i>	Rabbitsfoot	S1	G3G4	E	T
<i>Toxolasma lividum</i>	Purple Lilliput	S1	G3Q		
<i>Toxolasma texasiense</i>	Texas Lilliput	S3	G4		
<i>Triodopsis cragini</i>	Post Oak Threetooth	SH	G4		
<i>Utterbackiana suborbiculata</i>	Flat Floater	S2	G5		
<i>Ventrident demissus</i>	Perforate Dome	SU	G5		
<i>Vertigo oscariana</i>	Capital Vertigo	S1	G4		
<i>Villosa lienosa</i>	Little Spectaclecase	S3	G5		
<i>Zonitoides limatulus</i>	Dull Gloss	S1	G4G5		

Total Mollusk Records: 59

ARACHNIDS

<i>Apochthonius mysterius</i>	Mystery Cave	S1	G1G2
<i>Apochthonius typhlus</i>	Pseudoscorpion	S1	G1G2
<i>Hesperochernes occidentalis</i>	Stone County Cave	S1	G1G2
<i>Mundochthonius caverniculus</i>	Pseudoscorpion	S3	G5
<i>Phanetta subterranea</i>	Guano Pseudoscorpion	SU	G1G2
<i>Porrhomma cavernicola</i>	Cavernicolous Pseudoscorpion	S1	G5
	Subterranean Cave Spider	S2	G5
	Cavernicolous Porrhomma Spider		

Total Arachnid Records: 6

CRUSTACEANS

<i>Allocrangonyx hubrichti</i>	Hubricht's Long-tailed Amphipod	S3	G2G3
<i>Bactrurus brachycaudus</i>	Short-tailed Groundwater Amphipod	S4	G4
<i>Bactrurus hubrichti</i>	Sword-tail Cave Amphipod	S1	G4
<i>Bactrurus pseudomucronatus</i>	False Sword-tailed Cave Amphipod	S2	G2G3
<i>Brackenridgia ashleyi</i>	Ashley's Isopod	S2	G1G3
<i>Caecidotea antricola</i>	A Cave Obligate Isopod	S4	G5
<i>Caecidotea dimorpha</i>	An Isopod	S1S3	G2G3
<i>Caecidotea fustis</i>	Fustis Cave Isopod	S2	G2G3
<i>Caecidotea salemensis</i>	Salem Cave Isopod	S2	G4
<i>Caecidotea serrata</i>	Serrated Cave Isopod	S1	G1G2
<i>Caecidotea stiladactyla</i>	Slender-fingered Cave Isopod	S1	G3G4

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
CRUSTACEANS (Cont.)					
<i>Caecidotea stygia</i>	Stygian Cave Isopod	S1	G5		
<i>Cambarellus puer</i>	Swamp Dwarf Crayfish	S3?	G5		
<i>Cambarellus shufeldtii</i>	Cajun Dwarf Crayfish	S3?	G5		
<i>Cambarus aculabrum</i>	Benton County Cave Crayfish	SP	G1	E	
<i>Cambarus hubrichti</i>	Salem Cave Crayfish	S3	G4		
<i>Cambarus maculatus</i>	Freckled Crayfish	S3	G4		
<i>Cambarus setosus</i>	Bristly Cave Crayfish	S3	G3		
<i>Creaserinus fodiens</i>	Digger Crayfish	S2S3	G5		
<i>Diacyclops yeastmani</i>	Yeatman's Groundwater Copepod	S1S3	G2G3		
<i>Faxonella clypeata</i>	Ditch Fencing Crayfish	S2S3	G5		
<i>Faxonius eupunctus</i>	Coldwater Crayfish	S1	G2		
<i>Faxonius harrisonii</i>	Belted Crayfish	S3	G3		
<i>Faxonius lancifer</i>	Shrimp Crayfish	S1S2	G5		
<i>Faxonius marchandi</i>	Mammoth Spring Crayfish	S1S2	G2		
<i>Faxonius medius</i>	Saddleback Crayfish	S3?	G4		
<i>Faxonius meeki meeki</i>	Meek's Crayfish	S1	G4T4		
<i>Faxonius peruncus</i>	Big Creek Crayfish	S2	G2		
<i>Faxonius quadruncus</i>	St. Francis River Crayfish	S2	G2		
<i>Faxonius roberti</i>	Spring River Crayfish	SH	GNR		
<i>Faxonius stygocaneyi</i>	Caney Mountain Cave Crayfish	S1	G1		
<i>Faxonius williamsi</i>	Williams' Crayfish	S2	G3		
<i>Lacunicambarus ludovicianus</i>	Painted Devil Crayfish	SU	G5		
<i>Lacunicambarus polychromatus</i>	Paintedhand Mudbug	S1S2	G5		
<i>Lirceus megapodus</i>	An Isopod	SU	GNR		
<i>Macrobrachium ohioense</i>	Ohio Shrimp	S1	G4		
<i>Procambarus viaeviridis</i>	Vernal Crayfish	S3?	G5		
<i>Stygobromus barri</i>	Barr's Groundwater Amphipod	S1S3	G2G3		
<i>Stygobromus clantonii</i>	Clanton's Groundwater Amphipod	S1S3	G4		
<i>Stygobromus heteropodus</i>	Pickle Springs Amphipod	SX	G1G2		
<i>Stygobromus onondagaensis</i>	Onondaga Cave Amphipod	S3?	G3		
<i>Stygobromus ozarkensis</i>	Ozark Cave Amphipod	S3?	G4		
<i>Stygobromus subtilis</i>	Subtle Groundwater Amphipod	S1S3	G2		
<i>Triops longicaudatus</i>	Longtail Tadpole Shrimp	SU	G5		
Total Crustacean Records: 44					
MILLIPEDES					
<i>Causeyella dendropus</i>	Causeyella Cave Millipede	S2	G1G3		
<i>Chaetaspis aleyorum</i>	Aleys' Cave Millipede	S1	G1		
<i>Tingupa pallida</i>	Tingupa Cave Millipede	S4	G4		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MILLIPEDES (Cont.)					
<i>Zosteractis interminata</i>	Zosteractis Cave Millipede	SU	G2G3		
Total Millipede Records: 4					
INSECTS					
<i>Acroneuria ozarkensis</i>	Ozark Stone	S2	G2		
<i>Agapetus artesus</i>	Artesian Agapetus	S3	G3		
<i>Aleochara speculicollis</i>	Caddisfly				
<i>Allocapnia pygmaea</i>	A Staphylinid Beetle	SU	GNR		
<i>Alloperla hamata</i>	Pygmy Snowfly	S3	G5		
<i>Alloperla leonarda</i>	Barbed Sallfly	S3	G4		
<i>Amblyscirtes linda</i>	Truncate Sallfly	S3	G4		
<i>Amblytropidia mysteca</i>	Linda's Roadside Skipper	S2S3	G2G3		
<i>Amphiagrion saucium</i>	A Glade Grasshopper	SU	G5		
<i>Andrena beameri</i>	Eastern Red Damsel	S2	G5		
<i>Argia alberta</i>	An Andrenid Bee	S3	GNR		
<i>Arigomphus maxwelli</i>	Paiute Dancer	S1	G4		
<i>Arrhopalites clarus</i>	Bayou Clubtail	SU	G5		
<i>Attaneuria ruralis</i>	Clarus Cave Springtail	S3	G4		
<i>Baetisca obesa</i>	Giant Stone	S3	G4		
<i>Beameria venosa</i>	A Mayfly	S3	G5		
<i>Bibloplectus chickasaw</i>	A Concealed-tymbal	S3	GNR		
<i>Bombus affinis</i>	Cicada				
<i>Bombus fervidus</i>	A Staphylinid Beetle	SU	GNR		
<i>Calephelis borealis</i>	Rusty Patch Bumblebee	SU	G1	E	
<i>Calephelis muticum</i>	Yellow Bumblebee	S1	G4?		
<i>Catocala marmorata</i>	Northern Metalmark	S1	G3G4		
<i>Catocala pretiosa texarkana</i>	Swamp Metalmark	S3	G3		
<i>Ceratopsyche piatrix</i>	Marbled Underwing Moth	S3	G3G4		
<i>Chalybion zimmermanni</i>	Precious Underwing Moth	S3?	G4T4		
<i>zimmermanni</i>	A Net-spinning Caddisfly	S4	G4		
<i>Conocephalus saltans</i>	A Blue Mud Dauber	SU	GNRTNR		
<i>Cylindera celeripes</i>	Prairie Meadow Katydid	S3	G5		
<i>Deinopsis virginiana</i>	Swift Tiger Beetle	S1	G2G4		
<i>Derops divalis</i>	A Staphylinid Beetle	SU	GNR		
<i>Dianthidium texanum</i>	A Staphylinid Beetle	S3	GNR		
<i>Dichagyris reliqua</i>	A Leafcutter Bee	S1	GNR		
<i>Dromochrouus pruinina</i>	A Noctuid Moth	S1	G2G3		
<i>Euphyes dukesi</i>	Loamy-ground Tiger	S1	G3G4		
<i>Formica creightoni</i>	Beetle				
<i>Formica fossaceps</i>	Duke's Skipper	S1	G3		
<i>Formica querquetulana</i>	Creighton's Slavemaking	S3	GNR		
<i>Gennadota canadensis</i>	Ant				
<i>Glyphopsyche missouri</i>	Haystack Thatching Ant	S1	GNR		
	Oak-grove Ant	S1	GNR		
	A Staphylinid Beetle	SU	GNR		
	Missouri Glyphopsyche	S1	G1		
	Caddisfly				

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
INSECTS (Cont.)					
<i>Gomphus fraternus</i>	Midland Clubtail	SU	G5		
<i>Gomphus ventricosus</i>	Skillet Clubtail	SU	G3		
<i>Gryllotalpa major</i>	Prairie Mole Cricket	S3	G3		
<i>Habroscelimorpha circumpicta johnsonii</i>	Saline Spring Tiger Beetle	S1	G5T5		
<i>Hesperia ottoe</i>	Ottoe Skipper	S1	G3G4		
<i>Hesperus stehri</i>	A Staphylinid Beetle	SU	GNR		
<i>Hydroperla fugitans</i>	Austin Springfly	S3	G3		
<i>Inscudderia taxodii</i>	Bald Cypress Katydid	S1	GNR		
<i>Isoperla burksi</i>	Banded Stripetail	S3	G4		
<i>Isoperla longiseta</i>	Plains Stripetail	SX	G5		
<i>Lasia purpurata</i>	Purple Small-headed Fly	SU	GNR		
<i>Leptysma marginicollis</i>	Cattail Toothpick Grasshopper	S2S3	G5		
<i>Leucotrichia pictipes</i>	A Micro Caddisfly	S3	G5		
<i>Libellula auripennis</i>	Golden-winged Skimmer	SU	G5		
<i>Lordithon niger</i>	A Staphylinid Beetle	S3	GU		
<i>Lytrosis permagnaria</i>	Geometrid Moth	SU	G3G4		
<i>Maccaffertium bednariki</i>	A Heptageniid Mayfly	S3	G2G4		
<i>Macropis steironematis</i>	An Oil-collecting Bee	S1	GNR		
<i>Melanoplus fasciatus</i>	Huckleberry Grasshopper	S3	G5		
<i>Melanoplus francoensis</i>	A Spur-throat Grasshopper	S1	GNR		
<i>Melanoplus impudicus</i>	Immodest Grasshopper	S3	G4G5		
<i>Melanoplus packardii</i>	Packard's Grasshopper	S2	G5		
<i>Melanoplus punctulatus griseus</i>	Grizzly Grasshopper	SU	G4T4		
<i>Melanoplus viridipes viridipes</i>	Green-legged Grasshopper	S3	G4		
<i>Melissodes intorta</i>	A Callirhoe Bee	S1	GNR		
<i>Mermiria picta</i>	Mermiria Grasshopper	S3	G5		
<i>Merope tuber</i>	A Meropid Scorpionfly	S3	G3G5		
<i>Metalepta brevicornis</i>	Short-horned Grasshopper	S4	G5		
<i>Nehalennia gracilis</i>	Sphagnum Sprite	S1?	G5		
<i>Nehalennia irene</i>	Sedge Sprite	S1	G5		
<i>Neocoenocephalus exiliscanorus</i>	Slightly-musical Conehead Katydid	S3	GNR		
<i>Neocoenocephalus lyristes</i>	Bog Conehead Katydid	S1	GNR		
<i>Neoperla carlsoni</i>	Spiny Stone	S3?	G5		
<i>Neotrichia kitae</i>	Kite's Neotrichian Caddisfly	SU	GU		
<i>Neotridactylus apicialis</i>	Larger Pygmy Grasshopper	SU	GNR		
<i>Nicrophorus americanus</i>	American Burying Beetle	SH	G2G3	E	E
<i>Ochrotrichia contorta</i>	Contorted Ochrotrichian	SU	G1G2		
<i>Oecleus chrisjohni</i>	Micro Caddisfly				
<i>Oncopodura hoffi</i>	A Cixiid Planthopper	SU	GNR		
<i>Oxybleptes kiteleyi</i>	Hoff's Cave Springtail	S1S3	G1G2		
	A Staphylinid Beetle	SU	GNR		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
INSECTS (Cont.)					
<i>Papaipema eryngii</i>	Rattlesnake-master Borer Moth	S3	G1G2		C
<i>Papilio joanae</i>	Ozark Woodland Swallowtail	SU	G3		
<i>Pardalophora saussurei</i>	A Glade Grasshopper	SU	G5		
<i>Paroxya hoosieri</i>	Hoosier Grasshopper	S1	G5		
<i>Pentacora signoreti</i>	A Shore Bug	S1	GNR		
<i>Phoetaliotes nebrascensis</i>	Large-headed Grasshopper	S3	G5		
<i>Phrixocnemis tricentrus</i>	Tricentrus Camel Cricket	SU	GNR		
<i>Phyllobrotica lengi</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica nigritarsis</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica physostegiae</i>	A Leaf Beetle	S4?	GNR		
<i>Polyergus longicornis</i>	Long-horned Shining Amazon Ant	S1	GNR		
<i>Polyergus montivagus</i>	Foothills Shining Amazon Ant	S1	GNR		
<i>Polyergus ruber</i>	Ruby-red Shining Amazon Ant	S1	GNR		
<i>Polyergus sanwaldi</i>	Sanwald's Shining Amazon Ant	S1	GNR		
<i>Prostoia similis</i>	Longhorn Forestfly	S3	G5		
<i>Pseudomasaris occidentalis</i>	A Pollen Wasp	S3	GNR		
<i>Pseudosinella espana</i>	Espana Cave Springtail	S3	G2G3		
<i>Psinidia fenestralis</i>	Sand Grasshopper	S2S3	G5		
<i>Satyrodes appalachia leeuwi</i>	Appalachian Eyed Brown	S1	G4T4		
<i>Sepedophilus campbelli</i>	A Staphylinid Beetle	SU	GNR		
<i>Serratella frisoni</i>	Frison's Seratellan Mayfly	S2	G4		
<i>Sinella avita</i>	Avita Cave Springtail	SU	G3G4		
<i>Sinella barri</i>	Barr's Cave Springtail	SU	G5		
<i>Somatochlora hineana</i>	Hine's Emerald	S2	G2G3	E	E
<i>Somatochlora ozarkensis</i>	Ozark Emerald	SU	G3		
<i>Somatochlora provocans</i>	Treetop Emerald	S1	G4		
<i>Speyeria diana</i>	Diana Fritillary	SA	G3G4		
<i>Speyeria idalia</i>	Regal Fritillary	S3	G3		
<i>Stethophyma celatum</i>	Sedge Grasshopper	S3	G4		
<i>Stylurus intricatus</i>	Brimstone Clubtail	S1S2	G4		
<i>Stylurus notatus</i>	Elusive Clubtail	S2S3	G3		
<i>Telebasis byersi</i>	Duckweed Firetail	S1	G5		
<i>Telebasis salva</i>	Desert Firetail	SU	G5		
<i>Tettigidea armata</i>	Spined Grouse Locust	S2S3	G5		
<i>Tomocerus missus</i>	Missus Cave Springtail	SU	G4		
<i>Trimerotropis maritima</i>	Seaside Grasshopper	S1	G5		
<i>Xenochalepus potomaca</i>	A Leaf Beetle	SU	GNR		
<i>Xenotrechus condei</i>	Northern Xenotrechus Cave Beetle	S1	G1G2		
<i>Xenotrechus denticollis</i>	Southern Xenotrechus Cave Beetle	S1	G1G2		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
INSECTS (Cont.)					
<i>Xylocromus capito</i>	A Staphylinid Beetle	SU	GNR		
Total Insect Records: 119					
FISH					
<i>Acipenser fulvescens</i>	Lake Sturgeon	S1	G3G4	E	
<i>Alosa alabamae</i>	Alabama Shad	S2	G2G3		
<i>Alosa chrysocloris</i>	Skipjack Herring	SU	G5		
<i>Ameiurus nebulosus</i>	Brown Bullhead	S3?	G5		
<i>Ammocrypta clara</i>	Western Sand Darter	S2S3	G3		
<i>Ammocrypta vivax</i>	Scaly Sand Darter	S3	G5		
<i>Anguilla rostrata</i>	American Eel	SU	G4		
<i>Atractosteus spatula</i>	Alligator Gar	S1	G3G4		
<i>Carpoides velifer</i>	Highfin Carpsucker	S2	G4G5		
<i>Centrarchus macropterus</i>	Flier	S3	G5		
<i>Cottus specus</i>	Grotto Sculpin	S1	G2	E	
<i>Crystallaria asprella</i>	Crystal Darter	S1	G3	E	
<i>Cyprinella camura</i>	Bluntnose Shiner	S2S3	G5		
<i>Erimyzon suetta</i>	Lake Chubsucker	S2	G5		
<i>Etheostoma cragini</i>	Arkansas Darter	S3S4	G3G4		
<i>Etheostoma euzonum erizorum</i>	Current Saddled Darter	S3	G3G4T3T4		
<i>Etheostoma euzonum euzonum</i>	Arkansas Saddled Darter	S2	G3G4T3T4		
<i>Etheostoma fusiforme</i>	Swamp Darter	S1	G5	E	
<i>Etheostoma histrio</i>	Harlequin Darter	S2	G5	E	
<i>Etheostoma microperca</i>	Least Darter	S2	G5		
<i>Etheostoma nianguae</i>	Niangua Darter	S2	G2	E	T
<i>Etheostoma parvipinne</i>	Goldstripe Darter	S1	G4G5	E	
<i>Etheostoma whipplei</i>	Redfin Darter	S1	G4	E	
<i>Forbesichthys agassizii</i>	Spring Cavefish	S1	G4	E	
<i>Fundulus chrysotus</i>	Golden Topminnow	S1	G5		
<i>Fundulus dispar</i>	Starhead Topminnow	S2	G4		
<i>Fundulus kansae</i>	Northern Plains Killifish	S2	G5		
<i>Fundulus sciadicus</i>	Plains Topminnow	S3	G4		
<i>Hybognathus argyritis</i>	Western Silvery Minnow	S2	G4		
<i>Hybognathus hankinsoni</i>	Brassy Minnow	S3	G5		
<i>Hybognathus hayi</i>	Cypress Minnow	S1	G4G5	E	
<i>Hybognathus nuchalis</i>	Mississippi Silvery Minnow	S3S4	G5		
<i>Hybognathus placitus</i>	Plains Minnow	S2	G4		
<i>Hybopsis amnis</i>	Pallid Shiner	SX	G4		
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey	S2S3	G5		
<i>Lepomis marginatus</i>	Dollar Sunfish	S2	G5		
<i>Lepomis symmetricus</i>	Bantam Sunfish	S2	G5		
<i>Lethenteron appendix</i>	American Brook Lamprey	S2	G4		
<i>Macrhybopsis gelida</i>	Sturgeon Chub	S3	G3		
<i>Mugil cephalus</i>	Striped Mullet	SA	G5		
<i>Notropis buchanani</i>	Ghost Shiner	S2	G5		
<i>Notropis chalybaeus</i>	Ironcolor Shiner	S1	G4		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
FISH (Cont.)					
<i>Notropis heterolepis</i>	Blacknose Shiner	S2	G5		
<i>Notropis maculatus</i>	Taillight Shiner	S1	G5	E	
<i>Notropis ozarcana</i>	Ozark Shiner	S2	G3		
<i>Notropis sabinae</i>	Sabine Shiner	S1	G4	E	
<i>Notropis texanus</i>	Weed Shiner	S3	G5		
<i>Notropis topeka</i>	Topeka Shiner	S1	G3	E	E
<i>Noturus eleutherus</i>	Mountain Madtom	S1S2	G4	E	
<i>Noturus flavater</i>	Checkered Madtom	S3S4	G3G4		
<i>Noturus placidus</i>	Neosho Madtom	S1	G2	E	T
<i>Opsopoeodus emiliae</i>	Pugnose Minnow	S4	G5		
<i>Percina copelandi</i>	Channel Darter	S3	G4		
<i>Percina cymatotaenia</i>	Bluestripe Darter	S2	G2		
<i>Percina nasuta</i>	Longnose Darter	S1	G3	E	
<i>Percina shumardi</i>	River Darter	S3	G5		
<i>Percina uranidea</i>	Stargazing Darter	S2	G3		
<i>Percopsis omiscomaycus</i>	Trout-perch	S1?	G5		
<i>Pimephales tenellus parviceps</i>	Eastern Slim Minnow	S2S3	G4T2T3		
<i>Pimephales tenellus tenellus</i>	Western Slim Minnow	S3	G4T4		
<i>Platygobio gracilis</i>	Flathead Chub	S1	G5	E	
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	S1	G2	E	E
<i>Troglichthys rosae</i>	Ozark Cavefish	S2	G3	E	T
<i>Typhlichthys eigenmanni</i>	Salem Plateau Cavefish	S2S3	GNR		
<i>Umbratilis</i>	Central Mudminnow	S1	G5	E	

Total Fish Records: 65

AMPHIBIANS

<i>Ambystoma annulatum</i>	Ringed Salamander	S3	G4		
<i>Ambystoma talpoideum</i>	Mole Salamander	S2	G5		
<i>Ambystoma tigrinum</i>	Eastern Tiger Salamander	S3	G5		
<i>Amphiuma tridactylum</i>	Three-toed Amphiuma	S2	G5		
<i>Anaxyrus cognatus</i>	Great Plains Toad	S3	G5		
<i>Cryptobranchus alleganiensis</i>	Eastern Hellbender	S1	G3G4T3T4	E	
<i>Cryptobranchus alleganiensis bishopi</i>	Ozark Hellbender	S1	G3G4T2Q	E	E
<i>Eurycea spelaea</i>	Grotto Salamander	S2S3	G4		
<i>Hemidactylum scutatum</i>	Four-toed Salamander	S4	G5		
<i>Lithobates areolatus circulosus</i>	Northern Crawfish Frog	S3	G4T4		
<i>Lithobates pipiens</i>	Northern Leopard Frog	S2	G5		
<i>Lithobates sylvaticus</i>	Wood Frog	S3	G5		
<i>Pseudacris illinoensis</i>	Illinois Chorus Frog	S2	G3		
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	S2	G5		

Total Amphibian Records: 14

REPTILES

<i>Cemophora coccinea copei</i>	Northern Scarletsnake	S2S3	G5T5		
<i>Clonophis kirtlandii</i>	Kirtland's Snake	S1	G2		
<i>Crotaphytus collaris</i>	Eastern Collared Lizard	S4	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
REPTILES (Cont.)					
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	S1	G5T5	E	
<i>Emydoidea blandingii</i>	Blanding's Turtle	S1	G4	E	
<i>Farancia abacura reinwardtii</i>	Western Mudsnake	S2	G5T5		
<i>Heterodon gloydi</i>	Dusty Hog-nosed Snake	S1	G3G4Q		
<i>Heterodon nasicus</i>	Plains Hog-nosed Snake	SX	G5		
<i>Kinosternon flavescens</i>	Yellow Mud Turtle	S1	G5	E	
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	S2	G3G4		
<i>Nerodia cyclopion</i>	Mississippi Green Watersnake	SX	G5	E	
<i>Opheodrys vernalis</i>	Smooth Greensnake	SX	G5		
<i>Pantherophis ramspotti</i>	Western Foxsnake	S1	G5		
<i>Pantherophis vulpinus</i>	Eastern Foxsnake	S1	G5		
<i>Phrynosoma cornutum</i>	Texas Horned Lizard	S2	G4G5		
<i>Pituophis catenifer sayi</i>	Bullsnake	SU	G5T5		
<i>Plestiodon obsoletus</i>	Great Plains Skink	S2	G5		
<i>Plestiodon septentrionalis obtusirostris</i>	Southern Prairie Skink	S3	G5T5		
<i>Plestiodon septentrionalis septentrionalis</i>	Northern Prairie Skink	S3	G5T5		
<i>Sistrurus catenatus</i>	Eastern Massasauga	SX	G3	E	T
<i>Sistrurus tergeminus tergeminus</i>	Prairie Massasauga	S1	G3G4TNR	E	

Total Reptile Records: 21

BIRDS (See Appendix A for Tracking Criteria)

<i>Accipiter striatus</i>	Sharp-shinned Hawk	S2	G5		
<i>Anhinga anhinga</i>	Anhinga	SU	G5		
<i>Antigone canadensis</i>	Sandhill Crane	S1	G5		
<i>Ardea alba</i>	Great Egret	S3	G5		
<i>Asio flammeus</i>	Short-eared Owl	S2	G5		
<i>Asio otus</i>	Long-eared Owl	SU	G5		
<i>Athene cunicularia</i>	Burrowing Owl	SX	G4		
<i>Bonasa umbellus</i>	Ruffed Grouse	SU	G5		
<i>Botaurus lentiginosus</i>	American Bittern	S1	G5	E	
<i>Buteo swainsoni</i>	Swainson's Hawk	S2	G5		
<i>Campephilus principalis</i>	Ivory-billed Woodpecker	SX	G1		E
<i>Certhia americana</i>	Brown Creeper	SU	G5		
<i>Chlidonias niger</i>	Black Tern	SX	G4G5		
<i>Circus hudsonius</i>	Northern Harrier	S2	G5	E	
<i>Cistothorus palustris</i>	Marsh Wren	S3	G5		
<i>Coragyps atratus</i>	Black Vulture	S3	G5		
<i>Corvus corax</i>	Common Raven	SX	G5		
<i>Coturnicops noveboracensis</i>	Yellow Rail	SU	G4		
<i>Cygnus buccinator</i>	Trumpeter Swan	S1	G4		
<i>Egretta caerulea</i>	Little Blue Heron	S3	G5		
<i>Egretta thula</i>	Snowy Egret	S1	G5	E	
<i>Elanoides forficatus</i>	Swallow-tailed Kite	SX	G5		
<i>Empidonax minimus</i>	Least Flycatcher	SU	G5		
<i>Falco peregrinus</i>	Peregrine Falcon	S1	G4	E	

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
BIRDS (Cont.)					
<i>Gallinula galeata</i>	Common Gallinule	S2	G5		
<i>Geococcyx californianus</i>	Greater Roadrunner	S3	G5		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S3	G5		
<i>Ictinia mississippiensis</i>	Mississippi Kite	S3	G5		
<i>Ixobrychus exilis</i>	Least Bittern	S3	G5		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	S2	G4		
<i>Laterallus jamaicensis</i>	Black Rail	SU	G3G4		
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S2	G4	E	
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	S3	G5		
<i>Pandion haliaetus</i>	Osprey	S2	G5		
<i>Passerina ciris</i>	Painted Bunting	S3	G5		
<i>Peucaea aestivalis</i>	Bachman's Sparrow	S1	G3	E	
<i>Picoides borealis</i>	Red-cockaded Woodpecker	SX	G3		E
<i>Porzana carolina</i>	Sora	S2	G5		
<i>Rallus elegans</i>	King Rail	S1	G4	E	
<i>Rallus limicola</i>	Virginia Rail	S2	G5		
<i>Setophaga cerulea</i>	Cerulean Warbler	S2S3	G4		
<i>Setophaga pensylvanica</i>	Chestnut-sided Warbler	SU	G5		
<i>Setophaga virens</i>	Black-throated Green Warbler	SU	G5		
<i>Sitta pusilla</i>	Brown-headed Nuthatch	SX	G4		
<i>Spinus pinus</i>	Pine Siskin	SU	G5		
<i>Sterna antillarum athalassos</i>	Interior Least Tern	S1	G4T2Q	E	E
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	S1	G4	E	
<i>Tyto alba</i>	Barn Owl	S3	G5		
<i>Vermivora bachmanii</i>	Bachman's Warbler	SX	GH		E
<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	S3	G5		
Total Bird Records: 50					

MAMMALS

<i>Bison bison</i>	American Bison	SX	G4		
<i>Canis lupus</i>	Gray Wolf	SX	G5		E
<i>Canis rufus</i>	Red Wolf	SX	G1Q		E
<i>Cervus elaphus</i>	Elk or Wapiti	S?	G5		
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	S1	G3G4		
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat	SX	G3G4T1	E	E
<i>Ictidomys tridecemlineatus</i>	Thirteen-lined Ground Squirrel	S2	G5		
<i>Lasionycteris noctivagans</i>	Silver-haired Bat	S3	G3G4		
<i>Lasiurus cinereus</i>	Hoary Bat	S3	G3G4		
<i>Lasiurus seminolus</i>	Seminole Bat	SA	G5		
<i>Lepus californicus</i>	Black-tailed Jackrabbit	S1	G5		
<i>Lepus townsendii</i>	White-tailed Jackrabbit	SX	G5		
<i>Mustela frenata</i>	Long-tailed Weasel	S3	G5		
<i>Mustela nivalis</i>	Least Weasel	S3	G5		

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SRANK</u>	<u>GRANK</u>	<u>STATE STATUS</u>	<u>FEDERAL STATUS</u>
MAMMALS (Cont.)					
<i>Myotis austroriparius</i>	Southeastern Myotis	S1	G4		
<i>Myotis grisescens</i>	Gray Myotis	S3	G4	E	E
<i>Myotis leibii</i>	Eastern Small-footed Myotis	S2	G4		
<i>Myotis lucifugus</i>	Little Brown Myotis	S2	G3		
<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	S1	G1G2	E	T
<i>Myotis sodalis</i>	Indiana Myotis	S1	G2	E	E
<i>Ochrotomys nuttalli</i>	Golden Mouse	S3	G5		
<i>Oryzomys palustris</i>	Marsh Rice Rat	SU	G5		
<i>Perimyotis subflavus</i>	Tri-colored Bat	S2	G2G3		
<i>Perognathus flavescens</i>	Plains Pocket Mouse	S1	G5		
<i>Peromyscus gossypinus</i>	Cotton Mouse	S2	G5		
<i>Poliocitellus franklinii</i>	Franklin's Ground Squirrel	S2S3	G5		
<i>Puma concolor</i>	Mountain Lion	SX	G5		
<i>Reithrodontomys montanus</i>	Plains Harvest Mouse	S2	G5		
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	S1	G4T4	E	
<i>Sylvilagus aquaticus</i>	Swamp Rabbit	S2	G5		
<i>Tadarida brasiliensis</i>	Brazilian Free-tailed Bat	SA	G5		
<i>Taxidea taxus</i>	American Badger	S3	G5		

Total Mammal Records: 32

Total Records Processed:

1160

REFERENCES

NATURAL COMMUNITIES

Terrestrial Natural Community Taxonomic Authority:

Nelson, P.W., et al. 2010. The Terrestrial Natural Communities of Missouri, Revised ed. The Missouri Natural Areas Committee. Jefferson City, Missouri. 550pp.

Aquatic Natural Community Taxonomic Authority:

Pfleiger, W. L. 1989. Aquatic community classification system for Missouri. Aquatic Series Number 19. Missouri Department of Conservation, Jefferson City, Missouri, USA. 70 p.

For Additional Aquatic Natural Community Information:

Sowa, S.P., G. Annis, M.E. Morey, and D.D. Diamond. 2007. A gap analysis and comprehensive conservation strategy for riverine ecosystems of Missouri. Ecological Monographs 77(3): 301-334.

LICHENS

Taxonomic Authority:

Egan, R.S. 1987. A fifth checklist of the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. *Bryologist* 90:77-173.

For Additional Information:

Ladd, D. 1996. Checklist and bibliography of Missouri lichens. Missouri Department of Conservation. Natural History Series, No. 4. Jefferson City, Missouri. 92 pp.

LIVERWORTS AND HORNWORTS

Taxonomic Authority:

Schuster, R.M. 1966-1992. The Hepaticae and Anthocerotae of North America, six volume series. Columbia Univ. Press, N.Y. and Field Museum of Natural History, Chicago, Illinois.

MOSSES

Taxonomic Authority:

Anderson, Louis E., H.A. Crum, and W.R. Buck. 1990. List of the mosses of North America north of Mexico. *Bryologist* 93:448-499.

For Additional Information:

Crum, H. 1984. Sphagnopsida: Sphagnaceae. North American Flora, Series 2, 11:i-iv, 1-180.

FERNS AND FERN ALLIES

Taxonomic Authority:

Yatskievych, G. 1999. Steyermark's Flora of Missouri, Vol. 1, Revised ed. Missouri Department of Conservation. Jefferson City, Missouri. 1991 pp.

FLOWERING PLANTS

Taxonomic Authority:

Flora of Missouri Database. 2016. Flora of Missouri Project. Missouri Botanical Garden. St. Louis, Missouri.

FLOWERING PLANTS (Cont.)

Ecological Checklist of the Missouri Flora for Floristic Quality Assessment. 2015. Doug Ladd and Justin Thomas, *Phytoneuron*, 12:1-274.

For Additional Information:

Denison, E. 2008. Missouri wildflowers: a field guide to wildflowers of Missouri. Sixth ed. Missouri Department of Conservation. Jefferson City, Missouri. 280 pp.

Smith, T.E. 2000. Missouri plants of conservation concern. Missouri Department of Conservation. Jefferson City, Missouri. 47pp.

Steyermark, J.A. 1963. Flora of Missouri. Iowa State Press. Ames, Iowa. 1728 pp.

Summers, B. 1996. Missouri orchids. Missouri Department of Conservation. Jefferson City, Missouri. 112 pp.

Yatskievych, G. 1999. Steyermark's Flora of Missouri, Vol. 1, Revised ed. Missouri Department of Conservation. Jefferson City, Missouri. 1991 pp.

Yatskievych, G. 2006. Steyermark's Flora of Missouri, Vol. 2, Revised ed. Missouri Botanical Garden Press. St. Louis, Missouri. 1181 pp.

Yatskievych, G. 2013. Steyermark's Flora of Missouri, Vol. 3, Revised ed. Missouri Botanical Garden Press. St. Louis, Missouri. 1382 pp.

FLATWORMS

For Additional Information:

Huggins, D.G., P.M. Liechti and L.C. Ferrington, Jr., eds. 1985. Guide to the freshwater invertebrates of the Midwest. Kansas Biological Survey, Technical Publication No. 11. 221 pp.

MOLLUSKS

Taxonomic Authority:

Johnson, P.D., A.E. Bogan, K.M. Brown, N.M. Burkhead, J.R. Cordeiro, J.T. Garner, P.D. Hartfield, D.A.W. Lepitzki, G.L. Mackie, E. Pip, T.A. Tarpley, J.S. Tiemann, N.V. Whelan, and E.E. Strong. 2013. Conservation status of freshwater gastropods of Canada and the United States. *Fisheries* 38(6):247-282.

Williams, J.D., A.E. Bogan, R.S. Butler, K.S. Cummings, J.T. Garner, J.L. Harris, N.A. Johnson, and G.T. Watters. 2017. A revised list of the freshwater mussels (Mollusca: Bivalvia: Unionida) of the United States and Canada. *Freshwater Mollusk Biology and Conservation* 20:33-58.

For Additional Information:

McMurray, S.E., J.S. Faiman, A. Roberts, B. Simmons, and M.C. Barnhart. 2012. A guide to Missouri's freshwater mussels. Missouri Department of Conservation, Jefferson City, MO.

Oesch, R.D. 1995. Missouri naiades: a guide to the mussels of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 270 pp.

MOLLUSKS (Cont.)

Wu, S.K., R.D. Oesch and M.E. Gordon. 1997. Missouri aquatic snails. Missouri Department of Conservation. Jefferson City, Missouri. Natural History Series, No. 5. 97 pp.

CRUSTACEANS

Taxonomic Authority:

Committee on the Names of Crustaceans of the United States and Canada of the Crustacean Society and D. Turgeon. 2005. Common and scientific names of aquatic invertebrates from the United States and Canada: crustaceans. American Fisheries Society, Special Publication 31, Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1996. The crayfishes of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 152 pp.

INSECTS

Taxonomic Authority:

Poole, R.W. and P. Gentili (Eds.). 1996-97. *Nomina insecta nearctica*. A checklist of the insects of North America. Entomological Information Services. Rockville, M.D. Four volumes.

For Additional Information:

Heitzman, J.R. and J.E. Heitzman. 1987. Butterflies and moths of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 385 pp.

FISH

Taxonomic Authority:

Page, L., E.J. Crossman, H. Espinosa-Perez, L.T. Findley, C.R. Gilbert, R.N. Lea, N.E. Mandrak, R.L. Mayden, and J.S. Nelson. 2013. Common and scientific names of fishes from the United States, Canada, and Mexico. Seventh edition. American Fisheries Society, Special Publication 34. Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1997. The fishes of Missouri. Revised edition. Missouri Department of Conservation. Jefferson City, Missouri. 372 pp.

AMPHIBIANS AND REPTILES

Taxonomic Authority:

Crother, B.I. (ed) and Committee. 2014. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with comments regarding confidence in our understanding. Society for the Study of Amphibians and Reptiles. Web Access. September 2014, <http://ssarherps.org/publications/north-american-checklist/north-american-checklist-of-scientific-and-common-names/>.

For Additional Information:

Daniel, R.E. and B.S. Edmonds 2014. Atlas of Missouri Amphibians and Reptiles. Web Access. Sept 2014. <http://atlas.moherp.org/pubs/atlas13d.pdf>.

Johnson, T.R. 2000. The amphibians and reptiles of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 400 pp.

BIRDS

Taxonomic Authority:

American Ornithologists' Union. 1998. Check-list of North American birds, 7th Edition. American Ornithologist's Union. Washington, D.C. 829 pp.

For Additional Information:

Jacobs, R. 2001. Birds in Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 375 pp.

Jacobs, R. and J.D. Wilson. 1997. Missouri breeding bird atlas. Missouri Department of Conservation. Jefferson City, Missouri. 430 pp.

National Geographic Society. 1987. Field guide to the birds of North America. Second edition. Washington, D.C. 464 pp.

Robbins, M.B. and D.A. Esterla. 1992. Birds of Missouri: their distribution and abundance. University of Missouri Press. Columbia, Missouri. 399 pp.

MAMMALS

Taxonomic Authority:

Wilson, D.E. & DeeAnn M. Reeder (editors). 2005. Mammal species of the world. A taxonomic and geographic reference (3rd ed), Johns Hopkins University Press, 2,142 pp.

For Additional Information:

Boyles, J.G., J. Timpone, and L. Robbins. 2009. Bats of Missouri. Indiana State University Center for North American Bat Research and Conservation. p 60.

Hall, E.R. 1981. The mammals of North America, 2nd edition. John Wiley & Sons, New York, 1181+ pp.

Schwartz, C.W. and E.R. Schwartz. 2016. The wild mammals of Missouri, 3rd Revised edition. D.K. Fantz and V.L. Jackson (editors). University of Missouri Press. Columbia, Missouri. 426 pp.

FOR MORE INFORMATION

MDC collects and manages information on the location and status of species and natural communities of conservation concern throughout the state. The Missouri Natural Heritage Database is a repository for this information.

If you have information on the location or questions about the status of any element on this *Checklist*, please contact:

Natural Heritage Coordinator
Missouri Department of Conservation
P.O. Box 180
2901 W Truman Blvd
Jefferson City, MO 65109
(573) 522-4115

If you are requesting information about any Element on this *Checklist* for the purposes of environmental review, please write:

Resource Science Division
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65109

You can also conduct an online Natural Heritage Review by submitting your information to
<https://naturalheritagereview.mdc.mo.gov/>

WEBPAGE

This checklist is updated annually. The most current version is always available by contacting MDC, Resource Science Division. *Checklist* information is also available on MDC's website:
<http://mdc.mo.gov/145>.

CITATION

An appropriate citation for this edition of the *Checklist* is:

Missouri Natural Heritage Program. 2019. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. pp. 54.

APPENDIX A
BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EORS
Updated October 5, 2016

Species (ranks)	Regions	Criteria (safe dates), comments
Anseriformes (Ducks, geese, swans)		
Trumpeter Swan (S1, G4)	All (NE, NW)	1
Galliformes (chicken-like birds)		
Ruffed Grouse (SU, G5)	CE, OZ, SL, SE	1
Greater Prairie-chicken (S1, G4)	SW, KC, NW, NE	Anytime observed
Suliformes (anhinga)		
Anhinga (SX, G5)	SE	1
Pelecaniformes (herons, egrets, storks, ibises)		
American Bittern (S1, G4)	All	1- extensive-emergent marshes
Least Bittern (S3, G5)	All	1,2 (5/25-8/1)
Great Egret (S3, G5)	All (SE)	1
Snowy Egret (S1, G5)	SE	1
Little Blue Heron (S3, G5)	SE, SL	1
Black-crowned Night-Heron (S3, G5)	All (SE)	1
Accipitriformes (hawks, eagles, kites, vultures)		
Black Vulture (S3, G5)	OZ, SE	1
Osprey (S2, G5)	All (confirmed NE, SW)	1- Any large open body of water
Swallow-tailed Kite (SX, G5)	SE	- Formerly SE, large rivers
Mississippi Kite (S3, G5)	All (SE, SL, NE)	1- Expanding range
Bald Eagle (S3, G4)	All	1- Any large open body of water
Northern Harrier (S2, G5)	All (except OZ, SE)	1
Sharp-shinned Hawk (S2, G5)	All	1
Swainson's Hawk (S2, G5)	SW, KC	1
Gruiformes (rails, cranes)		
Yellow Rail (SU, G4)	All	Anytime observed (migrant)
Black Rail (S1, G4)	All	Anytime observed, large marshes
King Rail (S1, G4G5)	All (SE, SL, NE)	1,2 (5/30-7/31)
Virginia Rail (S2, G5)	All	1,2 (5/15-8/1)
Sora (S2, G5)	All	1,2 (5/30-7/31)
Common Gallinule (S2, G5)	All (except OZ)	1,2 (5/30-8/31)
Sandhill Crane (S1, G5)	NE, NW, CE, SL	1
Charadriiformes (gulls, terns, shorebirds)		
Interior Least Tern (S1, G4T2Q)	SE	1- Formerly along MS, MO Rivers
Black Tern (SX, G4)	NW	1
Cuculiformes (cuckoos, roadrunners)		
Greater Roadrunner (S3, G5)	SW, OZ	1
Strigiformes (Owls)		
Barn Owl (S3, G5)	All (SE)	1,2 (5/25-8/15)
Burrowing Owl (SX, G4)	NW	1
Long-eared Owl (SU, G5)	All	1-Forests, dense thickets near water
Short-eared Owl (S2, G5)	SW, NW, NE, KC	1,2 (5/1-8/31)

Piciformes (Woodpeckers)

Red-cockaded Woodpecker (SX, G3)	OZ, SE	Anytime observed
Ivory-billed Woodpecker (SX, G1)	All	Anytime observed

Falconiformes (falcons)

Peregrine Falcon (S1, G4)	SL, KC	1- Formerly along MO river bluffs
---------------------------	--------	-----------------------------------

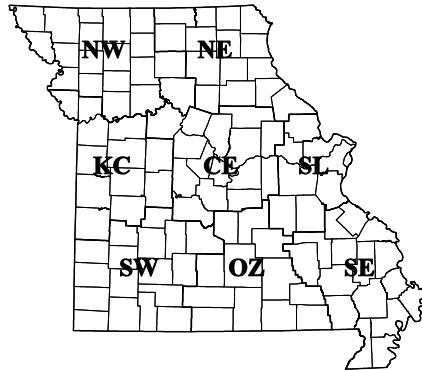
Passeriformes (perching birds)

Least Flycatcher (SU, G5)	NE, NW	1,2 (5/27-7/7)
Loggerhead Shrike (S2, G5)	All (SW, KC, NW)	1,2 (4/20-7/20)
Common Raven (SX, G5)	All	Anytime observed
Brown-headed Nuthatch (SX, G5)	OZ, SE	Anytime observed
Brown Creeper (SU, G5)	SL, NE, OZ	1,2 (5/15-9/15)
Marsh Wren (S3, G5)	All (except SW, SE, OZ)	1,2 (5/25-8/25)
Bachman's Warbler (SX, GH)	All	Anytime observed
Swainson's Warbler (S2, G4)	SE, OZ, SW	1,2 (5/25-8/15)
Cerulean Warbler (S2S3, G4)	All (OZ)	1,2 (6/1-8/10)
Chestnut-sided Warbler (S3, G5)	All	1,2 (6/1-8/10)
Black-throated Green Warbler (SU, G5)	SE	1
Bachman's Sparrow (S1, G3)	OZ, SW, SE	1,2 (6/1-8/15)
Painted Bunting (S3, G5)	SW, OZ	1,2 (5/25-8/1)
Yellow-headed Blackbird (S3, G5)	NW (possible anywhere)	1
Pine Siskin (SU, G5)	All	1

MDC Region abbreviations (Regions listed are those in which the species is most likely to be recorded).

CE- Central
NE- Northeast
OZ- Ozark
SE- Southeast

KC- Kansas City
NW- Northwest
SL- St. Louis
SW- Southwest



Explanation of Criteria

1. Confirmed breeding. Evidenced one or more of the following:

- Nest building (except wrens and woodpeckers)
- Nest with egg(s) or young (seen or heard)
- Used nest or eggshells
- Physiological evidence of breeding based upon bird in hand (e.g. brood patch)
- Distraction display or injury feigning
- Recently fledged young
- Adults entering or leaving nest site in circumstances indicating nesting
- Adult carrying fecal sac
- Adult carrying food

2. Probable breeding (valid only between safe dates)

- Male and female seen together (not part of a flock)
- Bird holding territory
- Seven or more singing males detected in one visit
- Courtship or copulation
- Visiting probable nest site
- Agitated behavior or anxiety call (not provoked by observer)
- Nest building by wrens or woodpeckers

3. Possible breeding (valid only between safe dates)

- Species heard or seen in breeding habitat
- Species heard or seen but not in breeding habitat